User's Manual DM7020S

**Digital satellite receiver for free and encrypted DVB-TV Program,
optional digital hard disk recording.**

Communication-Port
PCMCIA-Slot for CI-Modules
Internal hard disk support
Compact Flash Slot
LC-Display
2 Smartcard Readers
Linux OS

DVB Digital Video Broadcasting

Stab - USALS
UNIVERSAL SATELLITES
AUTOMATIC LOCATION SYSTEM

DOLBY DIGITAL Streaming

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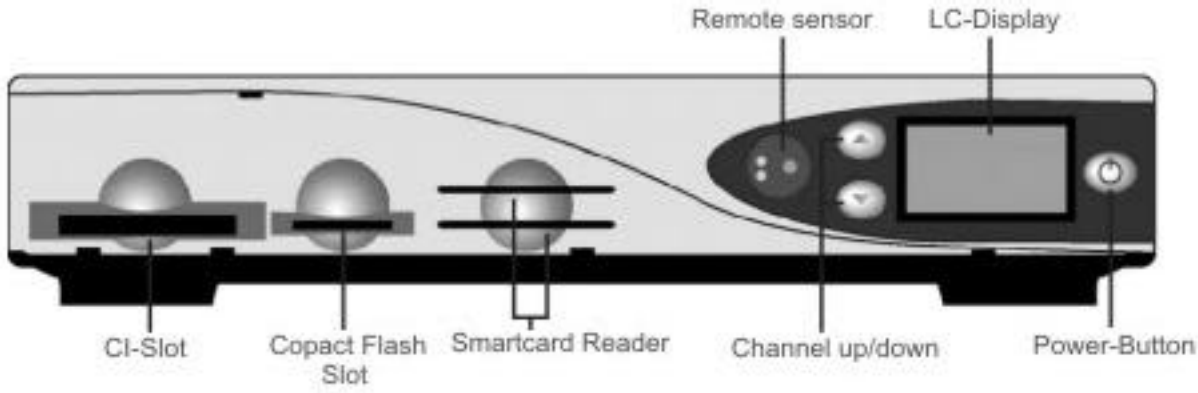
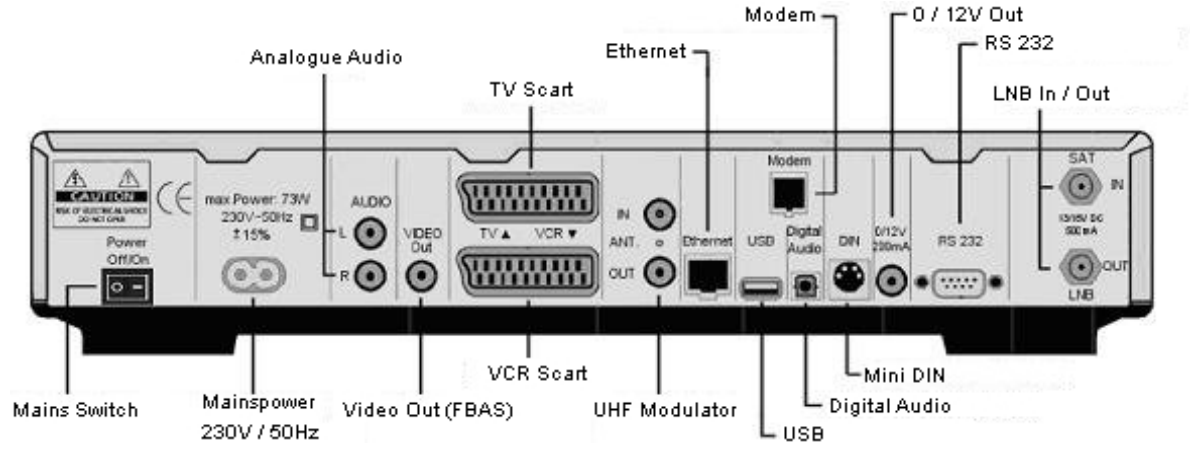
Notice: The Dreambox DM7020S is CE certified and fulfills all requirements of the EU-Standards. Issued: December 2004 / Rev 1.0
Software: 1.0X
Alterations are subject to change without notice. E. & O. E.

2. Views

Front view:



Rear view:



3. Description Frontview

3.1. CI-Slot

Plug in here any CI- Module of your choice.

3.2. Compact Flash Slot

The Compact Flash Slot is meant to hold a Compact Flash Module. If you want to use a CF-Module, shut down your Dreambox by using the Deep-Standby-Mode. Plug in carefully your CF-Module into the Compact Flash Slot. The CF-Module is recognized by the System as a hard disk. To access the Compact Flash Module, choose the File-Mode in the OSD-Main menu. Sometimes it is necessary to format your CF-Module via the OSD-Menu.
See passage Hard Disk Setup.

3.3. Smartcard Reader

Insert your Dreamcrypt Smartcard with the golden chip down and forward into one of the Smartcard Reader.

Dreamcrypt is a trademark of Dream-Multimedia-TV GmbH.

3.4. Remote sensor

The Remote sensor receives the infrared signals from the Dream Remote Control.

3.5. Channel up/down

The channel buttons at the Front of your Dreambox switch the TV or Radio channels up and down. To initialize the "Flash Erase" hold down the channel up button. Please refer to Dreambox factory settings (flash erase).

3.6. LC-Display

The LC-Display shows all major Information for the selected service.

3.7. Power-Button

The Power-Button switches your Dreambox off and on.

4. Description Rear view

4.1. Main power 230V / 50Hz

Plug in the power cable into the main power socket. The power plug remains only in its designated socket 230V / 50Hz.

4.2. TV Scart

Connect your TV with an appropriate Scartcable to your Dreambox.

4.3. VCR Scart

Connect your VCR with an appropriate Scartcable to your Dreambox. Remember, the VCR Scart is not designed to record a Video signal from the VCR.

4.4. HiFi-Amplifier

Connect your HiFi-Amplifier either to the analogue audio R/L (RCA/Cinch) or digital audio (Toslink) socket.

4.5. Analogue Audio (Cinch)

Connect your Dreambox with an appropriate RCA/Cinch cable to your HiFi-Amplifier (e.g. AUX or Tape socket).

4.6. Digital Audio (Toslink)

Connect your Dreambox with an appropriate optical (Toslink) cable to your HiFi-Amplifier or DSP. The Dreambox provides sample rates from 16, 22.05, 24, 32, 44.1, 48 kHz. The AC3 signal is also available at this socket, if the selected channel transmits Dolby Digital signals.

4.7. Communication Port (Ethernet 10/100MBit, RJ45)

The Communication Port is an Ethernet socket. Used to communicate with the Dreambox via HTTP, FTP, NFS, Telnet und Samba to access your recorded movies or to upload channel lists. This socket is also mentioned to update the Operation system. Please connect an appropriate patch cable. See passage DreamUp - Software upgrade.

4.8. Mini DIN

The Mini DIN Port is meant for external I2C rotor signals and provides signals for external IR Devices.

4.9. USB Port

The USB Port is designed for USB 1.2 compatible devices. The amount of provided USB devices depends on the installed image (Software) and is still under development.

4.10. Serial Port (RS232C, Sub-D, 9-pin)

The Serial Port is meant to update the operation system. Please connect a serial nullmodem cable here. See passage DreamUp - Software upgrade.

4.11. LNB In

Connect the coaxial cable from your LNB here. Please disconnect the Dreambox first.

4.12. LNB Out

Connect an analogue receiver here. Remember to shutdown your Dreambox into Deep-Standby-Mode, if you wish to view analogue TV.

4.13. Mains Switch

With the main switch you off your Dreambox completely.

4.14. Video Out (FBAS)

You can optionally connect a TV to this connector. (Composite)

4.15. Modem

Via the Modem Socket you can optionally connect to your ISP via a phone line.

4.16. 0 / 12V Out

A 0 / 12V Relais to switch between Satellites can be connected here.

4.17. UHF Modulator

Optionally connect your Dreambox to your TV via a coaxial cable.

5. Safety instructions

Please read the safety instructions completely and carefully, before using the Dreambox. The Manufacturer takes no responsibility for incorrect handling of the Dreambox.

- Allow enough space around the Dreambox for sufficient ventilation.
- Do not cover the Dreambox's ventilation openings with items such as newspapers, tablecloths, curtains etc.
- Do not expose the Dreambox to dripping or splashing liquids.
- Do not place open flame sources, such as lighted candles, on the Dreambox.
- Do not place any containers with liquid, such as vases, on the Dreambox.
- Do not connect or modify cables while the Dreambox is connected to the power.
- Do not remove the cover. Risk of electric shock!
- Do not put any metal things into the slots or ventilation openings.
- The installation of a hard disk is only allowed by skilled personal or your local dealer.
- Please note that the only way to isolate the Dreambox completely from the main power supply is to unplug the mains power cable!
- If you do not use your Dreambox for a longer time, please disconnect it from the main power.
- Please disconnect your Dreambox from the main power during thunder or heavy storms.
- Connecting to the dish (LNB):
  Disconnect the main power cable before connecting or disconnecting the coaxial cable.
- Connecting to the TV or VCR:
  Disconnect the main power cord before connecting or disconnecting the scart cable.
- Disconnect the mains power cable if the power cord is damaged.
- Disconnect the mains power cord if the Dreambox gets in contact with moisture or moisture has penetrated inside.
- Disconnect the main power cord if you spot any damage to the housing.
- Earthing:
  The dish must be earthened.
  The earthing system must match SABS 061.
- Cleaning:
  Disconnect the mains power cord before cleaning the cover. Use a slightly damp cloth without cleaning agents.
- Connect the Dreambox only to suitable sockets 230V/50Hz. Do not allow overloads to occur.

WARNING!
Modifications and changes to the Dreambox leads to loss of warranty.
We recommend the installation of a hard disk by your local dealer.
Unskilled installation of a hard disk leads to loss of warranty.

6. Scope Of Supply

The box of your DM7020S shall contain the following items:

1 receiver Dreambox 7020S
1 power cord
1 remote control
1 user's manual (latest release @ http://www.dream-multimedia-tv.de)
2 batteries (1,5V Mignon / AA / LR6)
2 hard disk mounting racks (are premounted)
1 IDE cable
1 molex power cord for the hard disk

optional parts:

1 wireless keyboard

7. Installation

- Insert 2 AA (1,5V) batteries, taking care to observe the + and - markings indicated inside, into the Remote Control.

- Before using the Dreambox, please read the safety instructions.

- Connect the LNB with an appropriate coaxial cable to LNB In at your Dreambox.

- Connect the Dreambox with an appropriate scart cable to your television screen.

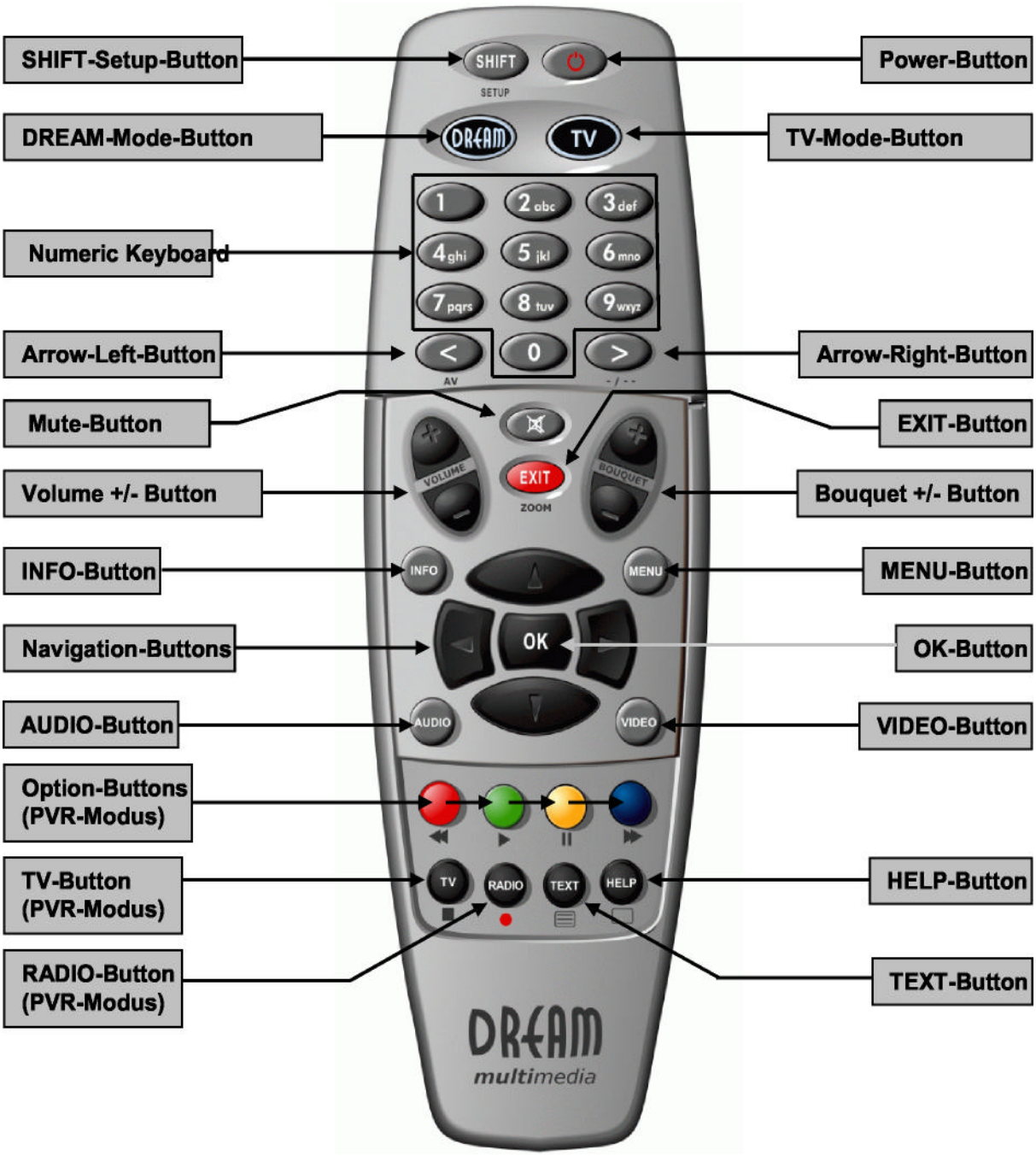
- Plug in the mains power cord into the mains power socket 230V/50Hz.

- If you are using a switchable power socket please shutdown your Dreambox into deep standby before switching off the power socket.

- If you switch on your Dreambox for the first time, you will see the setup wizard.
  The setup wizard will guide you through the first time installation. You will be asked for your TV norm, the regional settings and your language. Please choose and follow the instructions on the screen.

- Please note that the video format meets the factory setting CVBS (FBAS).
  See passage A/V Settings.

8. Remote Control Overview



9. Important Notes about Condition

All functions of the Dreambox can be observed via OSD-Menu (On-Screen-Display). This makes the handling of the Dreambox very easy for you. All options are indicated by four colored dots or beams (red, green, yellow, blue) in the OSD-Menu and can be started with the Option-Buttons on the Remote Control.

Depending on the chosen Menu, the Options do change and are explained via the **Help-Button** on the Remote Control.

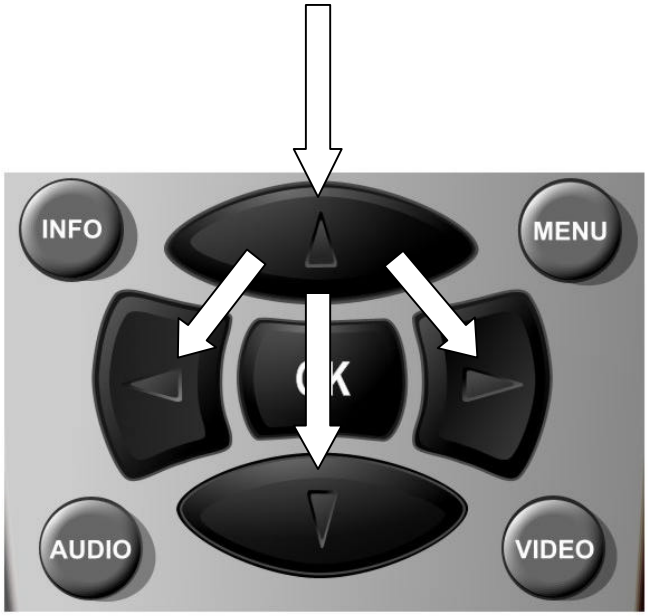
The **Option-Buttons** are assigned with more than one Function. As you can see, under the **Option-Buttons**, **TV-Button** and **RADIO-Button** are Symbols. These Symbols are for the Condition in the PVR-Mode (Private Video Recording). To activate or deactivate the PVR-Mode press the **VIDEO-Button**. You will notice, that the Infobar changes its appearance. You will find more Information about recording at passage **recording a movie (instant recording)**.

All Menus and Service lists are closed with the **EXIT-Button**.

The Condition of the OSD Menus will be performed with the **Navigation-Buttons** on your Remote Control.

If you want to enter a Menu press the **OK-Button**.

Navigation-Buttons



10. Remote Control Description

SHIFT-Setup-Button

This Button is used to program the Remote Control for a TV Device.
See Passage **Setup-TV-Mode**

POWER-Button

This Button switches your Dreambox on or off.
See passage **Dreambox switching on / off**.

TV-Mode-Button

This Button turns the Remote Control into TV-Mode. The **TV-Mode-Button** flashes shortly, if you press this or any other Button in this Mode. The Remote Control controls now your TV.

DREAM-Mode-Button

This Button turns the Remote Control into Dream-Mode. The Dream-Mode-Button flashes shortly, if you press this or any other Button in this Mode. The Remote Control now controls the Dreambox.

Numeric-Keyboard

Enter a Service number directly over the **Numeric-Keyboard**. The Service numbers are on the left Side of the Service list.In the OSD-Main menu are numbers shown in front of the Option or Function, in this case you can enter the desired number to access the Option or Function directly without moving the Cursor beam to it.

Arrow-Left-Button **Arrow-Right-Button**

These Buttons enable to jump back- or forwards through the Playlist. The Playlist contains the last chosen Services and Movies, which have been selected. Once having opened the Servicelist, you are able to jump at the Beginning or the End of the Servicelist or to the next Marker.

Volume-Mute-Button

This Button mutes the Volume. A crossed Speaker Symbol will appear on the TV Screen. Pressing it again or the **Volume +/- Buttons**, brings the Audio back.

EXIT-Button

This Button exits all Menus and aborts Operations.

Volume +/- Button

These Buttons **increase (+) or decrease (-) the volume**.

Bouquet +/- Button

These Buttons switch through the **Bouquets forwards (+) and backwards (-)**.

INFO-Button

This Button shows the EPG Information's. Pressing this Button twice shows the Stream information.

OK-Button

This Button shows the **Infobar** if no OSD-Menu is shown.
This button enters a chosen OSD-Menu Option or Function.

MENU-Button

This Button shows the **OSD-Main menu**. If a Service list is opened, press this Button to enter the Service-Menu.

AUDIO-Button

The AUDIO-Button shows the available **Audio-Tracks** of the selected Service.

VIDEO-Button

This Button activates or deactivates the **PVR-Mode**. By pressing this Button a couple of times, if a Service list is opened, it changes the View of the Service list.

Option-Buttons

These Buttons activate the shown Options. They also control the PVR functions in PVR-Mode.

TV-Button

This Button activates the **TV-Mode**. It also keeps the **Stop-Funktion in PVR-Mode**.

HELP-Button

This Button brings up the **Help menu**.

RADIO-Button

This Button activates the **RADIO-Mode**. It also keeps the **Record-Function in PVR-Mode**.

TEXT-Button

This Button activates the **Teletext-Sofware Decoder**. If a Service list is opened, this Button jumps directly to the **File-Mode**.

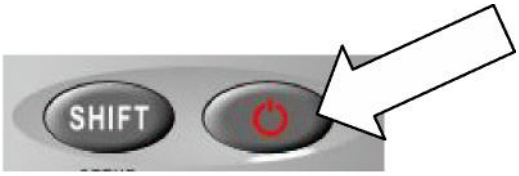
11. Dreambox switching on / off

Use the **Power-Button** to switch the Dreambox on or off. The Dreambox has two different Standby-Modes. A Standby-Mode and a Deep-Standby-Mode. Unplug the Mains power cord to make the Dreambox completely powerless.

The Power-Button only works if no OSD-Menu is shown on the TV screen!

Press the **Power-Button** once to switch the Dreambox into Standby-Mode. The actual Time appears on the LC-Display.

Press the Power-Button for at least 5 seconds, to shut down the Dreambox into Deep-Standby-Mode, or choose in the OSD-Mainmenu the option (9) Shutdown. All settings will be saved.



Press the Power-Button for at least **3 seconds**. The Shutdown / Standby Menu appears.

Use the Navigation-Buttons up and down to choose an option. Press the **OK-Button** to activate.

shutdown now:
The Dreambox shuts down into Deep-Standby-Mode. The LC-Display shows no information.

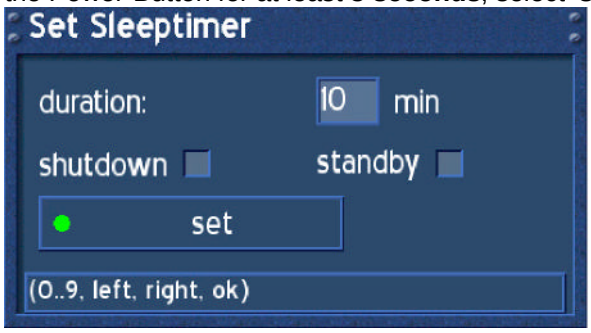
restart:
The Dreambox restarts the Operation system.

goto standby:
The Dreambox shuts down into Standby-Mode. The LC-Display shows the actual Time.

set sleeptimer:
See passage Sleeptimer.

12. Sleeptimer

Press the Power-Button for at least **3 seconds**, select "**set sleeptimer**" to enter this menu.



Define a max. duration of 240 minutes. Define if the Dreambox should shutdown or should go into standby by setting a check into one of the checkboxes beside shutdown and standby with the OK-Button.

Press the **green Option-Button** to set Sleeptimer.

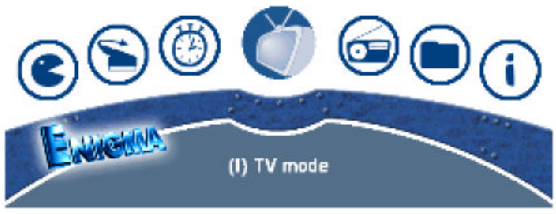
13. OSD-Mainmenu

If no OSD-Menu is shown on the TV screen, the **MENU-Button** enters the OSD-Mainmeu.

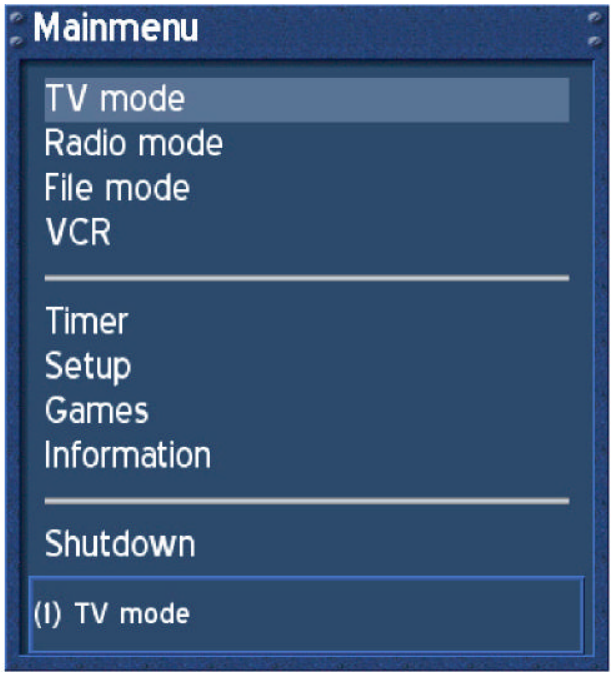
Through this OSD-Mainmenu it is possible to activate the main options and functions. Use either the Navigation-Buttons followed by the OK-Button or press the desired number to enter the Option or Function.

To change the view of the OSD-Mainmenu go to (6) Setup -> (3) System Settings -> (4) OSD Settings and check the checkbox "Show Mainmenu like Listbox". Exit all menus and reenter the OSD-Mainmenu.

(1) TV Mode
(2) Radio Mode
(3) File Mode
(4) Information
(5) Shutdown
(6) Setup
(7) Games
(8) VCR
(9) Timer



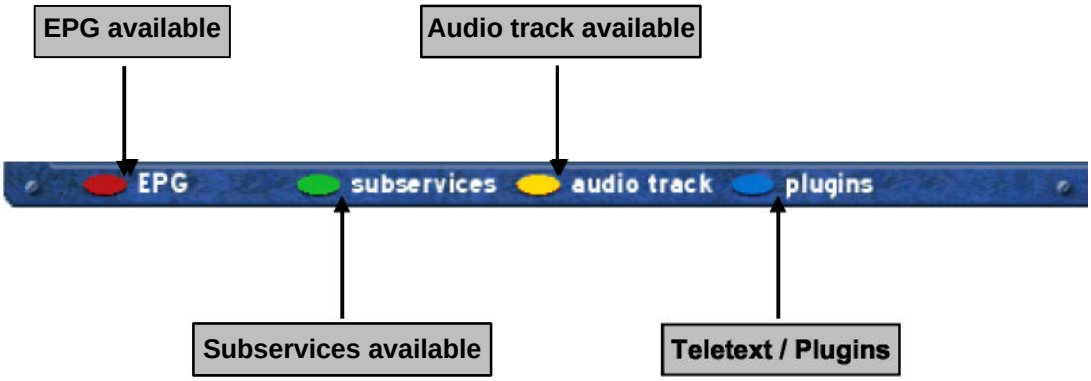
1. TV Mode
2. Radio Mode
3. File Mode
4. VCR
5. Timer
6. Setup
7. Games
8. Information
9. Shutdown



14. Infobar

The Infobar appears and disappears by pressing the **OK-Button** once, if no OSD-Menu is shown on your TV screen. The Infobar shows all necessary Information about the selected Service.

"**Crypted**" appears orange, if the transmitted Service is crypted.
"**Aspect Ratio**" appears orange, if the Service is transmitted in 16:9, the usual Aspect Ratio is 4:3.
"**Dolby Digital Program**" appears orange, if the Service is transmitted with Dolby Digital Audio stream.



Attention: During activated PVR-Mode, the Option-Buttons control the PVR-Functions.
See passage Record a movie (spontaneous recording).

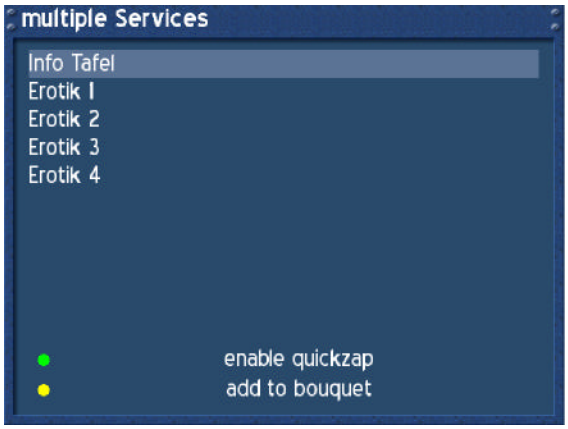
14.1. Infobar - EPG (Electronic Program Guide)

The red dot in the Infobar appears if the selected program transmits EPG information's.

Press the **red Option-Button** to enter the EPG.

Press the **OK-Button** to view detailed Information.
Press the **EXIT-Button** to exit this menu.

14.2. Infobar - Subservices



The green dot in the Infobar appears if the selected program provides Subservices.

Press the **green Option-Button** to enter the menu multiple services".

Use the Navigation-Buttons up and down to choose a service. Press the **OK-Button** to enter the service.

enable quick zap:
Press the green Option-Button to enable the quick zap mode. You can now choose a multiple Service using the **Navigation-Buttons** left or right without entering this menu. Press the **green Option-Button** to bring up this menu and press the **green Option-Button** again to deactivate the quick zap mode.

add to bouquet:
Press the **yellow Option-Button** to add the selected Service to a Bouquet of your choice. See passage Service Organizing.

14.3. Infobar - Audio Track

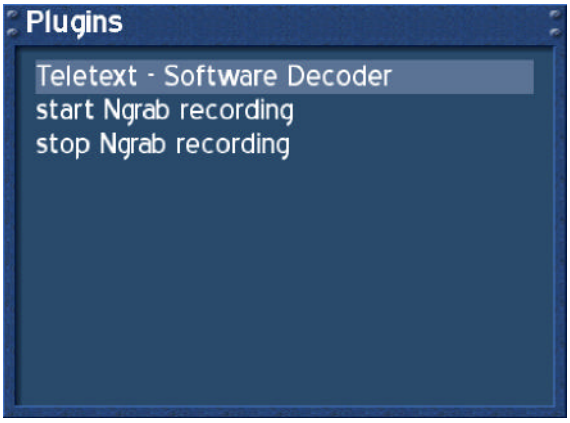
The yellow dot in the Infobar appears if the selected Service transmittes multiple Audio-Tracks.

Use the **Navigation-Buttons** left or right to choose the different Audio-Modes, Left-Mono, Stereo, Right-Mono. Press the **OK-Button** to activate.

Use the **Navigation-Buttons** up or down to choose another Audio-Language. Press the **OK-Button** to activate.

14.4. Infobar - Plugins

The blue dot in the Infobar appears permanently



Use the **Navigation-Buttons** up or down to choose a Plugin. Press the **OK-Button** to activate.

Teletext - Software Decoder:
This Option activates the Teletext - Software Decoder. See passage Teletext - Software Decoder (TuxText) activating.

start/stop Ngrab recording:
These Functions are still under development. They are used to record a Service over the Network.

15. Setup - OSD Language

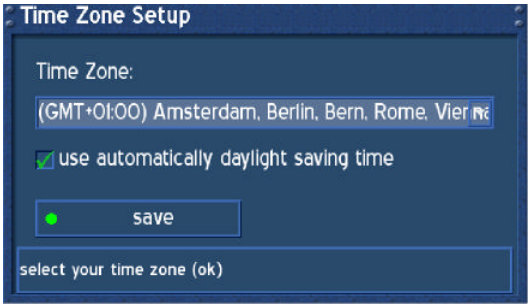
Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (3) System Settings -> (5) OSD Language.

Use the **Navigation-Buttons** up or down to choose your language.

Press the **OK-Button** to activate. Exit all menus and reenter.

16. Setup - Time Zone

Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (3) System Settings -> (1) Time Settings -> (1) Timezone Configuration.



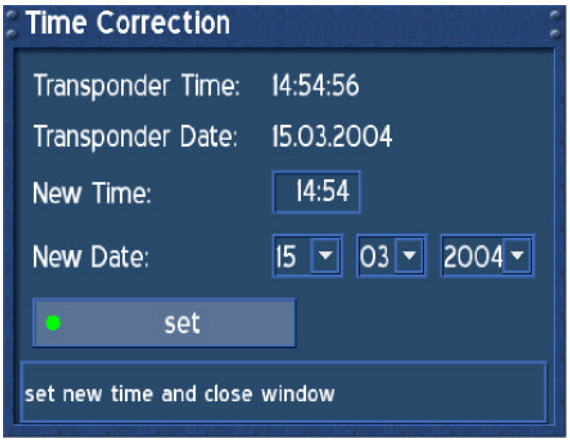
Press the **OK-Button** to open the Dropdown list. Use the Navigation

Buttons up or down to search for your Time Zone. Press the **OK-Button** to select. *use automatically daylight saving time:*

Check or uncheck the Checkbox with the **OK-Button**. If checked, the Time will be automatically adjusted for daylight saving changes. Press the **green Option-Button** to save.

17. Setup - Time Correction

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (3) System Settings -> (1) Time Settings -> (2) Time Correction.

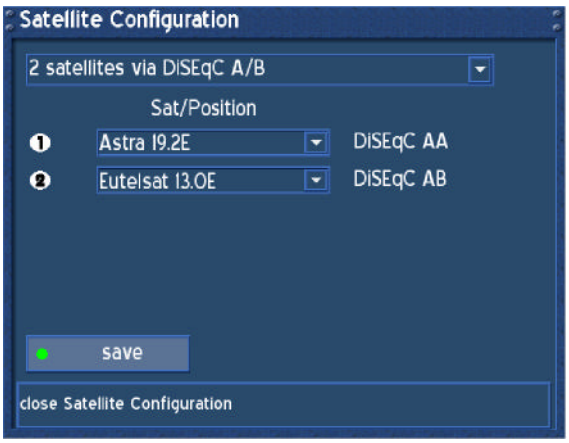


When entering this menu, please wait a second. The Dreambox tries to get the actual Time. The Transponder Time and Date will be automatically updated. If this fails, enter the new Time and Date manually.

Press the **green Option-Button** to set the new Time and Date.

18. Satellite Configuration

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (2) Service Searching -> (1) Satellite Configuration.

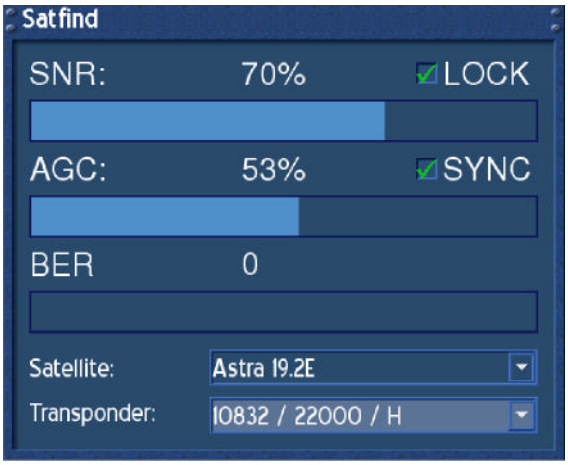


Navigate to the upper Dropdown list and choose your appropriate Satellite Configuration and press the **OK-Button**. Choose your Satellites the Dish is adjusted to and press the **green Option-Button** to save configuration.

This Configuration might differ from yours.

19. Satfind

Press the **MENU-Button**.
Go to (6) Setup -> (2) Service Searching -> (2) Satfind.



Choose from the lower Dropdown lists your preferred satellite and transponder.

Adjust the Dish towards the desired satellite until you have a high value on the Signal strength AGC and on the Signal quality SNR indicator. The BER should always indicate a value of zero if the Satellite is locked and synced.

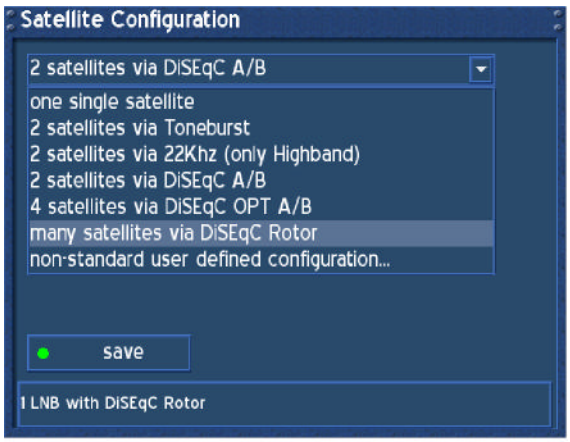
SNR: Signal to Noise Ratio
This Indicator shows the Quality of the Signal.

AGC: Automatic Gain Control
This Indicator shows the Strengh of the Signal.

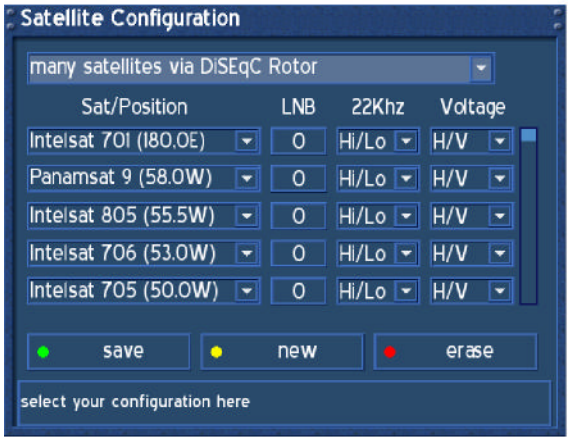
BER: Bit Error Rate
This Indicator shows the Errors Rate of the Signal.

20. Motor Setup

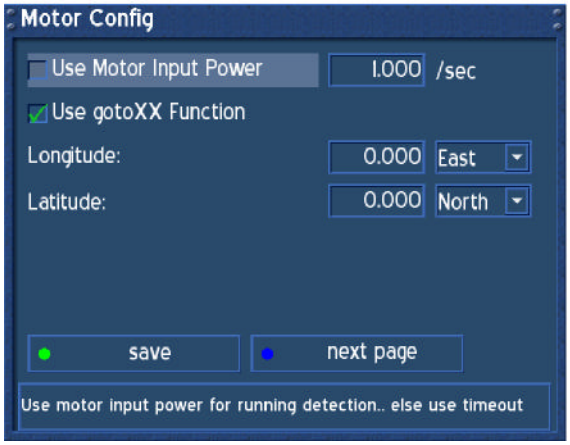
Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (2) Service Searching -> (3) Motor Setup.


Satellite Configuration
2 satellites via DiSEqC A/B
one single satellite
2 satellites via Toneburst
2 satellites via 22Khz (only Highband)
2 satellites via DiSEqC A/B
4 satellites via DiSEqC OPT A/B
many satellites via DiSEqC Rotor
non-standard user defined configuration...
save
1 LNB with DiSEqC Rotor

Before proceeding with the Motor Setup refer to passage Satellite Configuration and choose from the upper Dropdown list "many satellites via DiSEqC Rotor" and press the **OK-Button**, if you setup a Motor for the first time.



All possible satellites will be listed. Press the **green Option-Button** to save this configuration.



After saving the Configuration, choose (3) Motor Setup from the Menu Service Searching and press the **OK-Button**. The Menu Motor Config appears.

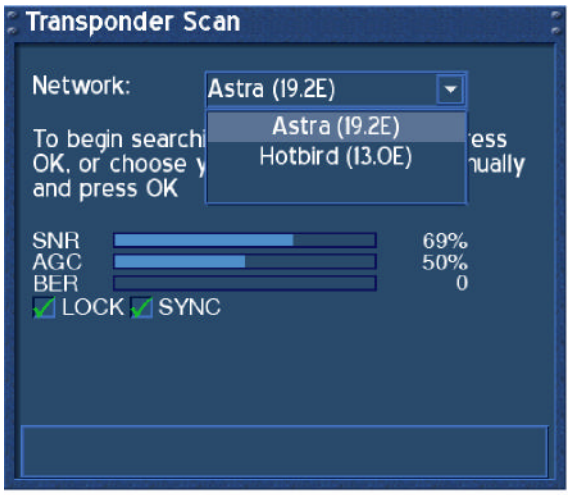
Refer to the Rotors Manual for correct values degrees/second. If unsure, set a check in front of "Use Motor Input Power" and enter the maximum current the Motor is using for turning to the Dish.

Visit the Website http://www.heavens-above.com to figure out your geographical location. Enter the values for Longitude and Latitude and press the green Option-Button to save.

Proceed to passage Automatic Multisat Scan.

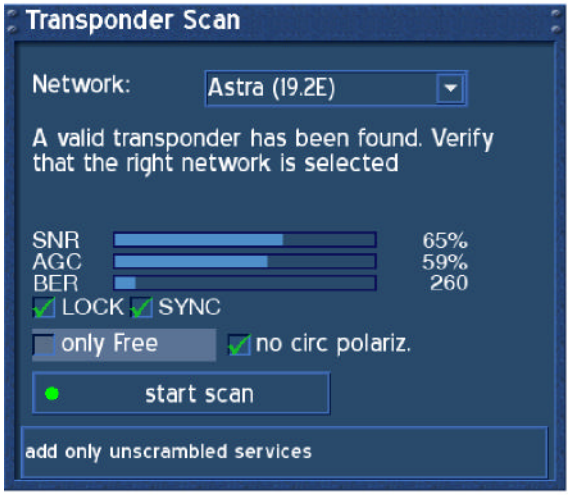
21. Automatic Transponder Scan

Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (2) Service Searching -> (5) Automatic Transponder Scan.



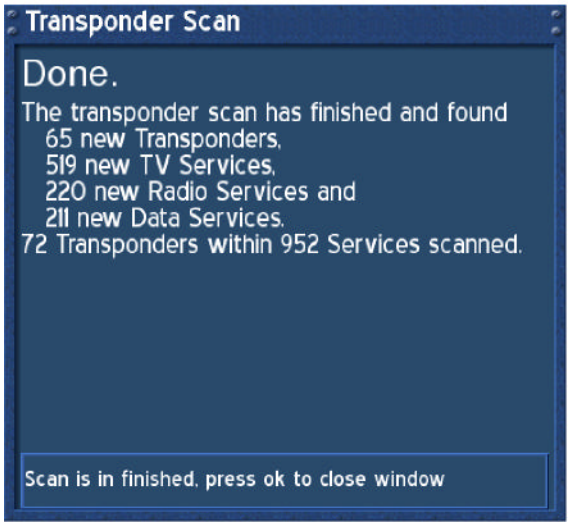
The Automatic Transponder Scan scans one satellite after one which is configured.

Select the first satellite to scan and press the **OK-Button**.



Now choose to scan only Free services or not by setting a check or not. If your LNB is not a C-Band LNB, then let the check in the Checkbox in front of no circ polariz.

Press the **green Option-Button** to start scan.

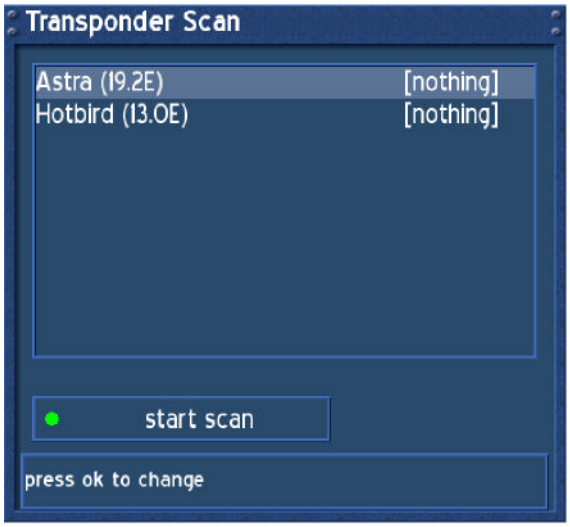

Transponder Scan
Done.
The transponder scan has finished and found
65 new Transponders,
519 new TV Services,
220 new Radio Services and
211 new Data Services.
72 Transponders within 952 Services scanned.
Scan is in finished, press ok to close window

This window appears after scanning the satellite.

Press the **OK-Button** to proceed to the next satellite scan.

22. Automatic Multisat Scan

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (2) Service Searching -> (6) Automatic Multi Scan.



The Automatic Multisat Scan is recommened for scanning all configured satellites at once.

By pressing the **OK-Button** on each satellite a couple of times, you set the scan method.

First: nothing, satellite will not be scanned Second: all, services will be scanned Third: only free, services will be scanned Fourth: nothing, again

Press the **green Option-Button** to start scan.

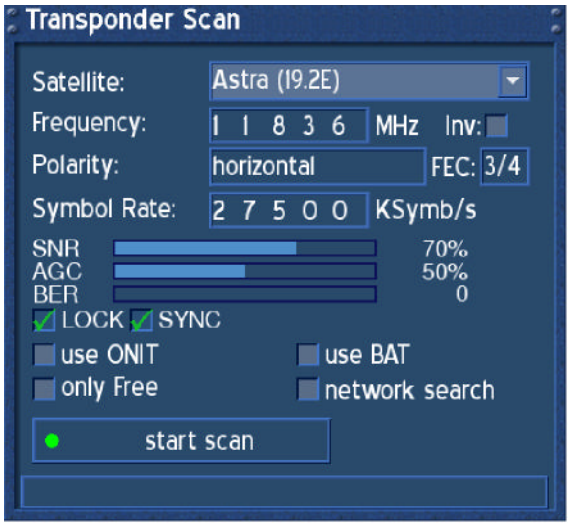
Transponder Scan
Done.
The transponder scan has finished and found
151 new Transponders,
1405 new TV Services,
574 new Radio Services and
406 new Data Services.
169 Transponders within 2389 Services scanned.
Scan is in finished, press ok to close window

This window appears after scanning the satellites.

Press the **OK-Button** and answer no to the next question.

23. Manual Transponder Scan

Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (2) Service Searching -> (7) Manual Transponder Scan.



The Manual Transponder Scan is recommened for scanning a specific Transponder that has not been found during Automatic Transponder Scan. New services will be added to the Service list.

Press the **OK-Button** on the upper Dropdown list and choose the appropiate Satellite, press the **OK-Button** again to select.

Type in the correct Transponder Values in its fields. Press the **green Option-Button** to start scan. The scan results will be shown in the next window.

24. Transponder Edit

Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (2) Service Searching -> (4) Transponder Edit.

This Menu keeps all known satellites the Dreambox scans for. If you recognize a missing satellite, add or edit the satellite.

Pressing the **OK-Button** on the sat-button, enters the Satellite Edit Menu.

Pressing the **OK-Button** on the add-button, adds a new frequency to the selected satellite.

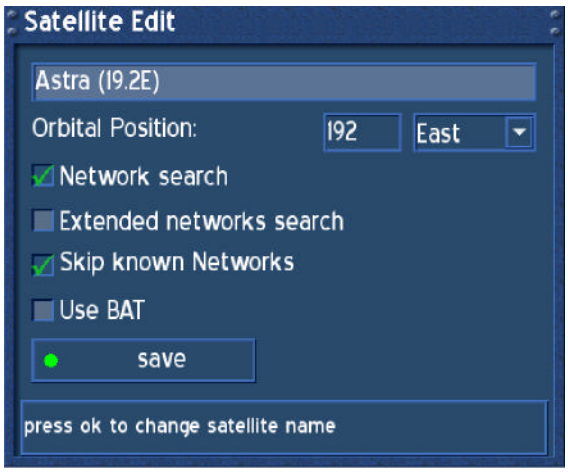
Pressing the **OK-Button** on the edit-button, edits the Transponder Values for the selected satellite.

Pressing the **OK-Button** on the remove-button, removes a transponder frequency from the selected satellite.

Pressing the **green Option-Button** adds a new satellite.

Pressing the **red Option-Button** deletes a satellite.

Follow the Instructions on the Statusbar.



Network search:
The NIT holds the Information about the Satellites and the TV/Radio- Programs.
(NIT = Network Information Table)

Extended network search:
Set a check to scan the NIT from other Transponders

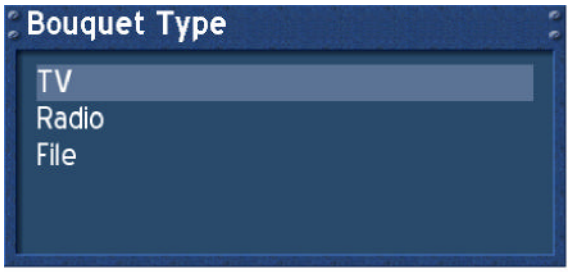
Skip known Networks:
Unchecking this, decreases the sat scan. The NIT will not be used.

Use BAT:
Bouquet Tables of the Provider will be used, if available.
(BAT = Bouquet Association Table)

Press the **green Option-Button** to save.

25. Service Organising - Create new Bouquet

The Bouquets are used to save your favorite services from the Main Service list into one simple bouquet. You can ether add a TV, Radio or a File Bouquet. In this example we only describe creating a TV Bouquet, because it's always the same procedure.
Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (1) Service Organising -> (1) Create new Bouquet.



This Menu shows the Bouquet Types, the Dreambox allows you to add.

Select TV and press the **OK-Button**.

Enter a name of your choice with the Numeric-Keyboard on your Remote-Control.

Press the **yellow Option-Button** for lower or uppercase letters.

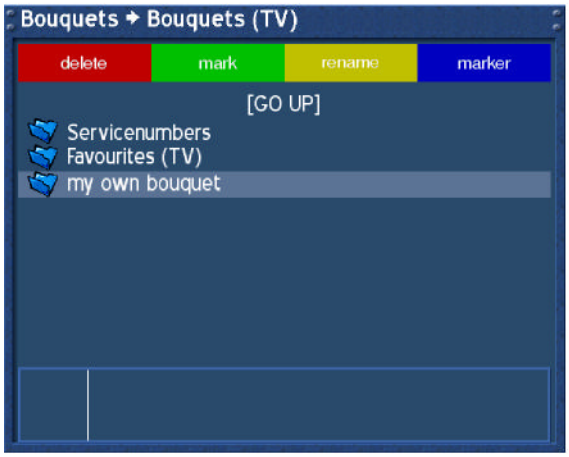
Press the **blue Option-Button** for numeric or letters to come first.

Press the **Volume + Button** to insert a letter or space.

Press the **Volume - Button** to remove a letter or space.

Press the **OK-Button** to save.

The System will guide you back to the Menu Service Organizing.



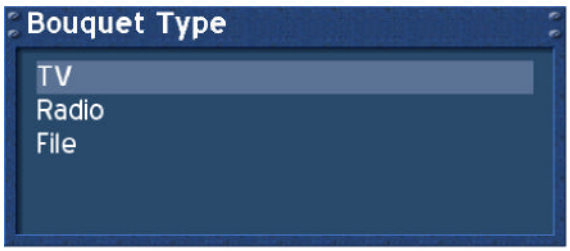
To verify your created Bouquet, choose (3) Edit Bouquets from the Menu Service Organizing and press the **OK-Button**. Choose from the next Menu Bouquets, Bouquets (TV) and press the **OK-Button**.

The Bouquet has been created. Press the **EXIT-Button** to exit.

The System will guide you back to the Menu Service Organizing.

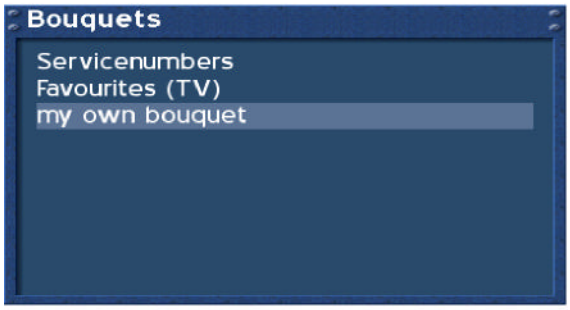
26. Service Organising - Add services to Bouquet

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (1) Service Organising -> (2) Add services to Bouquet.



This Menu shows the Bouquet Types, the Dreambox allows you to add services to.

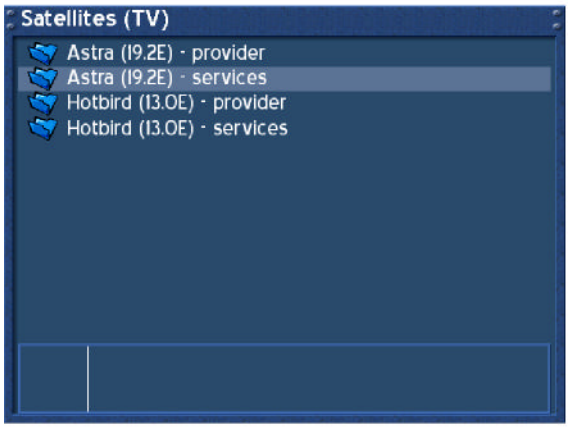
Select TV and press the **OK-Button**.



This Menu shows the System default Bouquets, Servicenumbers and Favorites (TV).

The Bouquet "my own bouquet" has been created one passage before.

Navigate to the created Bouquet and press the **OK-Button**.



This Menu shows all configured satellites.

You can ether add services from the Provider list or add a service from the Serviceslist.

In our example we choose Astra (19.2E) - services to collect some services to add.

Navigate to Astra (19.2E) - services and press the **OK-Button**.

Now choose your desired services by navigating to them and pressing the **OK-Button** to select. All selected services do appear red.

To unselect a service, just press the **OK-Button** on it again.

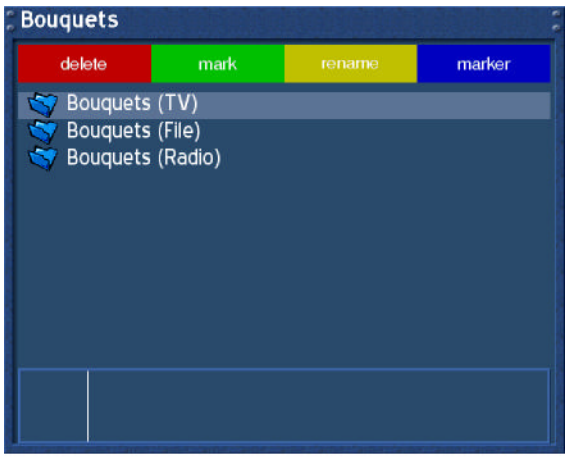
To finish selection press the **EXIT-Button**.

The System will guide you back to the Menu Service Organising.

To verify your selected services, choose (3) Edit Bouquets from the Menu Service Organising and press the **OK-Button**. Choose from the next Menu Bouquets, Bouquets (TV) and press the **OK-Button**. Navigate to your created bouquet and press the **OK-Button**.

27. Service Organsing - Edit Bouquets

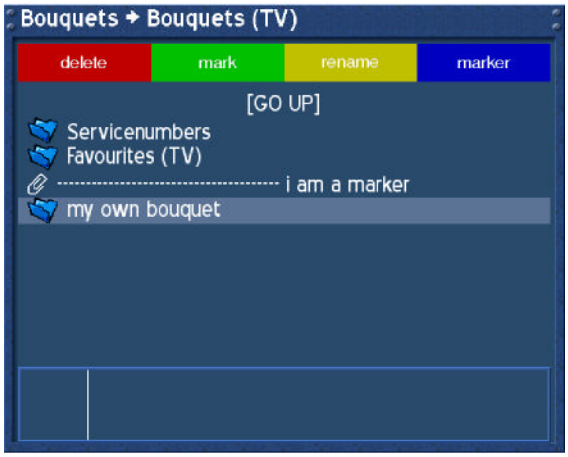
Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (1) Service Organising -> (3) Edit bouquets.



In this Menu you can only rename the selected Bouquet Type by pressing the yellow Option-Button.

Choose a Bouquet Type you wish to edit a Bouquet from.

In our example we do choose Bouquets (TV) to edit.
Press the **OK-Button**.



Press the **red Option-Button** to delete a selected Bouquet.

Press the **green Option-Button** to highlight a Bouquet and direct it to another place in the list. Press the **green Option-Button** again to release.

Press the **yellow Option-Button** to rename a selected Bouquet.

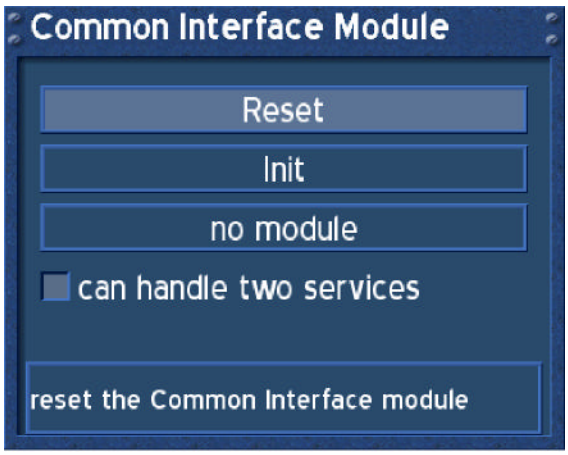
Press the **blue Option-Button** to set a marker between two Bouquets. A marker is used to place visual remarks. You can create as many markers as you want.

The same functions can be applied inside a Bouquet.
Press the **OK-Button** to enter a Bouquet.

Press the **EXIT-Button** to exit.

28. Common Interface

Press the **MENU-Button** to enter the OSD-Mainmenu
Go to (6) Setup -> (4) Common Interface.



Reset:

Use this Button to reset the CI- or CA-Module, if you experience problems with an encrypted service.

Init:

Use this Button to initialize the Smartcard inside your Module. We suggest to insert the Smartcard into the Module before inserting the Module into the Dreambox.

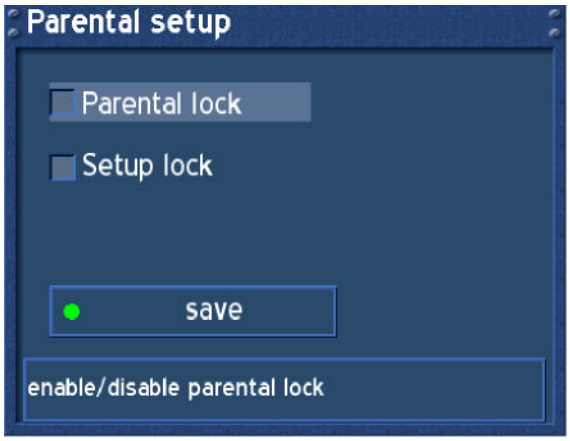
No Module:

This Button shows normally the Firmware from your Module. If none is inserted you see this message.

If a Module is inserted, navigate to this Button to enter its Options. Set a check in front of can handle two services", if your Module does support this.

29. Parental Lock

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (5) Parental Lock.
Parental lock is used to lock services of your choice inside the Service list against access. Setup lock is used to lock the Menu (6) Setup against access. The Parental setup requires a four digit code of your choice called PIN for Parental lock and Setup lock.

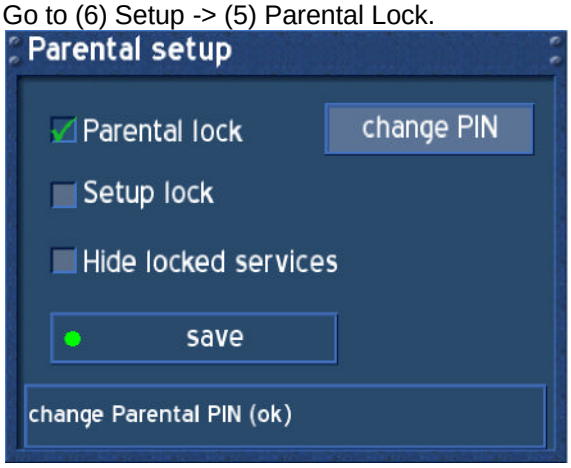


Attention:

Loosing this PIN requires a "Flash Erase" of the Operation system to reset to factory defaults. See passage Dreambox resetting to factory defaults (flash erase).

29.1. Parental lock enable / disable

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (5) Parental Lock.



To enable Parental lock, set a check in front of "Parental lock". The Button "change PIN" appears. Navigate to this Button and press the **OK-Button** to enter a PIN your choice. Reenter the PIN.

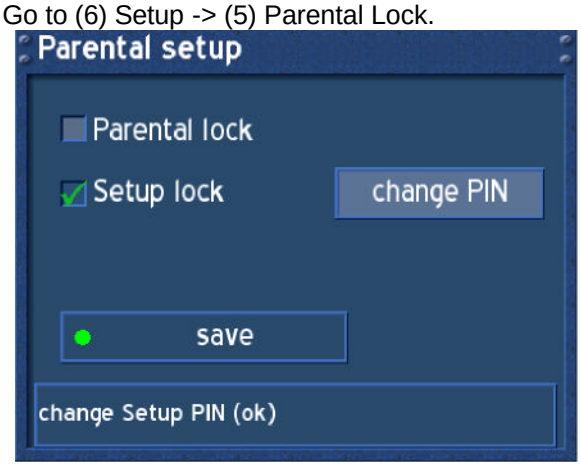
If you don't want to see locked services inside the Service list, set a check in front of "Hide locked services".

To disable Parental lock, uncheck the checkbox from "Parental lock" and enter the PIN to verify.

Press the **OK-Button** to save.

29.2. Setup lock enable / disable

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (5) Parental Lock.

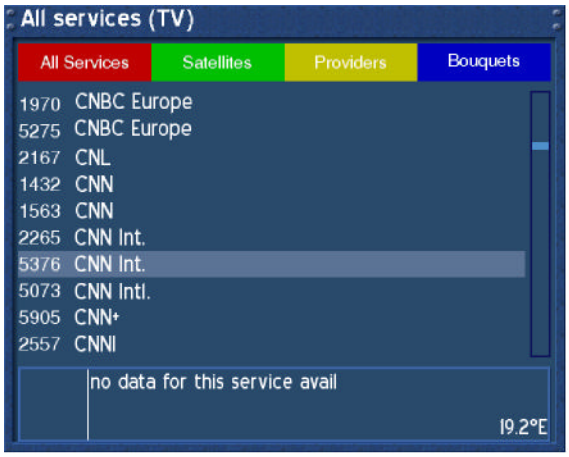


To enable Setup lock, set a check in front of "Setup lock". The Button "change PIN" appears. Navigate to this Button and press the **OK-Button** to enter a PIN of your choice. Re-enter the PIN.

To disable Parental lock, uncheck the checkbox from "Setup lock" and enter the PIN to verify.

Press the **OK-Button** to save.

30. Services locking / unlocking

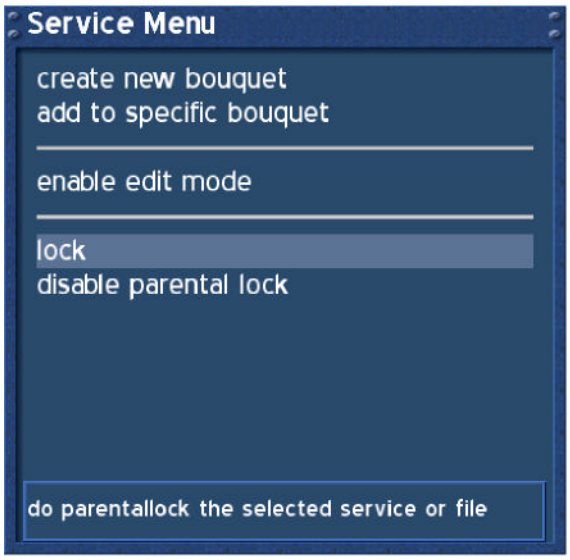


Press the **TV-Button** to bring up the Service list.

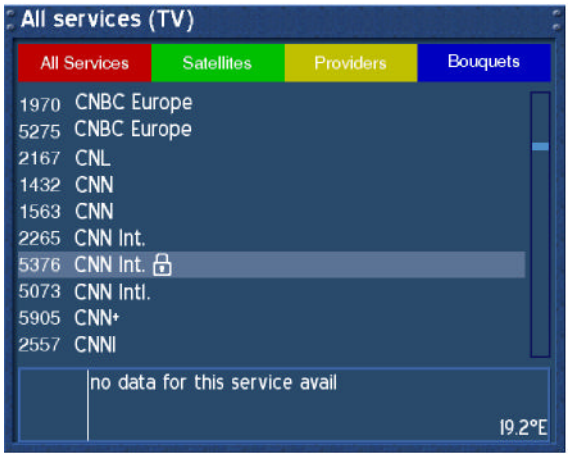
Choose the Service you want to lock / unlock and press the MENU-Button.

You can lock / unlock services in any Service list. Press the desired **Option-Button** to enter either

All Services, Satellites , Providers or **Bouquets**



After pressing the **MENU-Button** the Service Menu appears. Navigate to the option “lock” / “unlock” and press the **OK-Button** to lock / unlock the selected service.



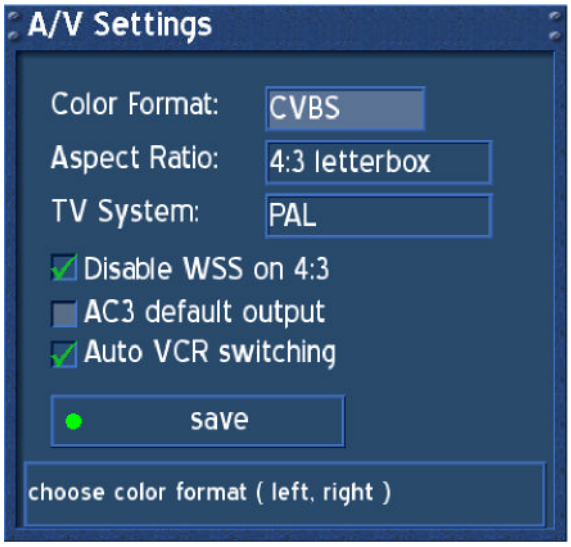
Beside the selected service appears the Symbol for a locked service.

If you want to view / unlock this service next time you select it, you will be asked for the PIN.

Enter the PIN to view / unlock this service. After unlocking the Service, the Symbol for a locked service will disappear.

31. A/V Settings

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (3) System Settings -> (2) A/V Settings.



Use ether the Navigation-Buttons left and right or the **OK-Button** to change or set the Values.

Color Format:
CVBS(FBAS), **RGB** (Red, Green, Blue seperated), **SVideo** (Color- and Brightness signal seperated) and **YPbPr** (Component signal e.g. for Projectors).

Aspect Ratio:
4:3 letterbox (standard), (16:9 programs will be displayed on 4:3 TV's with black beams at top and bottom)
4:3 panscan (16:9 programs will be zoomed to full high on 4:3 TV's, parts of the picture on the left and right side will cut off)
16:9 (programs transmitted in 16:9 will be displayed automatically in 16:9, on 4:3 TV's the picture will be reduced in height)
always 16:9 (for 16:9 TV's, on 4:3 TV's the picture will be reduced in height)

TV System:
PAL, PAL+PAL60, Multinorm and NTSC Select the Norm your TV supports.
We suggest to choose Multinorm.

Auto VCR switching:
Activating this function (standard) switches the Videosignal from the VCR socket to the TV. Depending on the used VCR, switching takes affect by turning on the VCR or starting playback.

disable WSS on 4:3:
Set a check into the Checkbox to disable zooming on some 16:9 TV's during 4:3 transmissions.

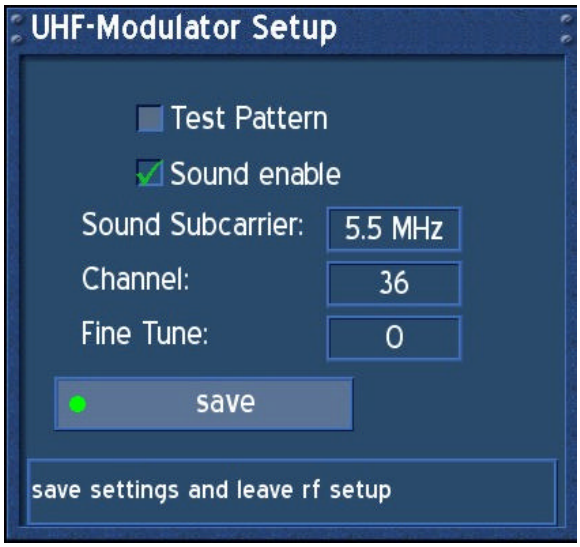
AC3 default output:
If a program is transmitted with an AC3 Audio-Track (e.g. Dolby Digital), the Dreambox switches automatically to this Audio-Track. The AC3 Signal will only be available at the optical socket.

The Dreambox has no built-in Dolby Digital Decoder, AC3 signals are not available on the analogue socket, therefore you need an external Dolby Digital Amplifier to adjust the Volume.

Press the **green Option-Button** to save.

32. UHF Modulator

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (3) System Settings -> (3) UHF Modulator.



Connect your TV set with an appropriate Coax cable to the UHF-Output of your Dreambox.

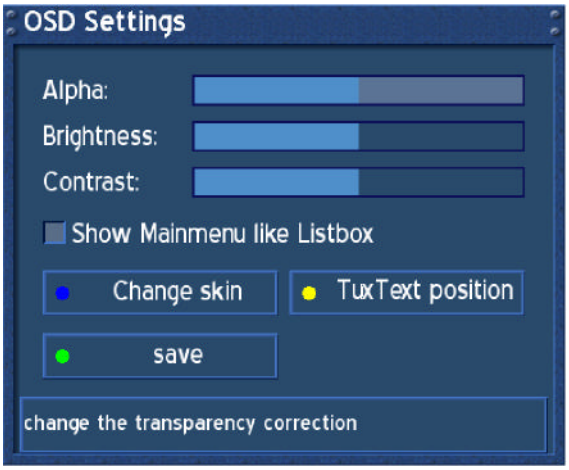
Start the scan on your TV set. The UHF Modulator is set to channel 36 by default. If your VCR has the same channel, you can change this value.

If you want, you can change these values with the Navigation-Buttons and the **OK-Button**.

Save your Settings with the **green Options-Button**.

32. OSD Settings

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (3) System Settings -> (4) OSD Settings.



Use the Navigation-Buttons left or right to decrease or increase the selected slider.

Alpha:
Setup how much the TV picture should be visable through the OSD.

Brightness:
Setup the Brightness of the OSD.

Contrast:
Setup the Contrast of the OSD.

Show Mainmenu like Listbox:
Set a check into Checkbox to enable listboxview of the OSD-Mainmenu.

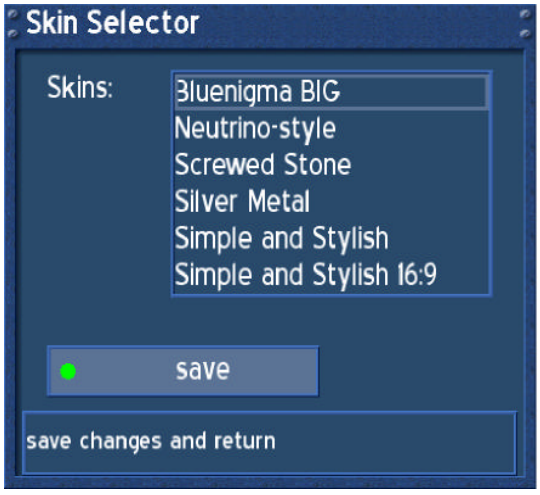
Change skin:
Setup a new skin. See passage Change Skin.

TuxText position:
Setup the TuxText position. See passage TuxText position.

Press the **green Option-Button** to save.

32.1. Skin Setup

Press the **MENU-Button** to enter the OSD-Main menu
Go to (6) Setup -> (3) System Settings -> (4) OSD Settings



Press the blue Option-Button (change skin).

A skin changes the appearance of the OSD.

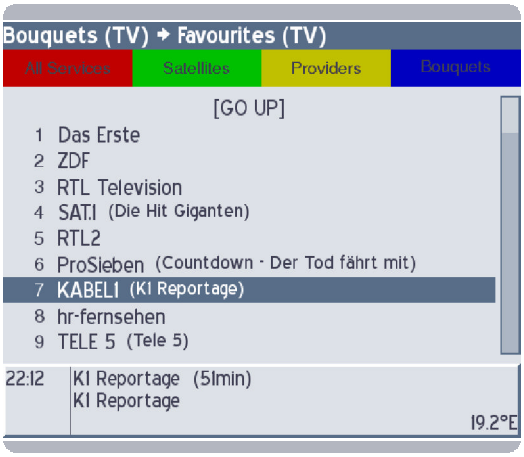
The default skin is Screwed Stone.

Please take a look at passage Available Skins to make yourself a picture of this.

Navigate to a Skin of your choice and press the **OK-Button** to activate.

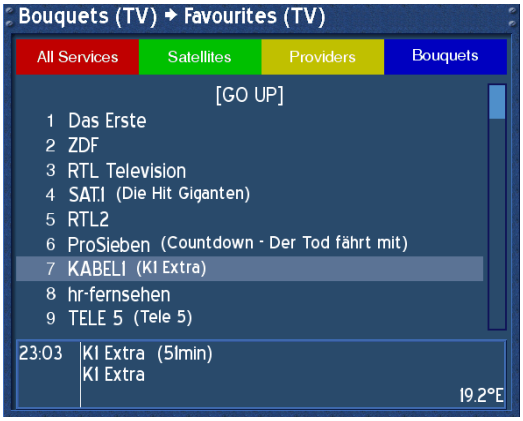
The Dreambox will ask you to restart the Operation system to apply the new skin.

32.2. Available Skins

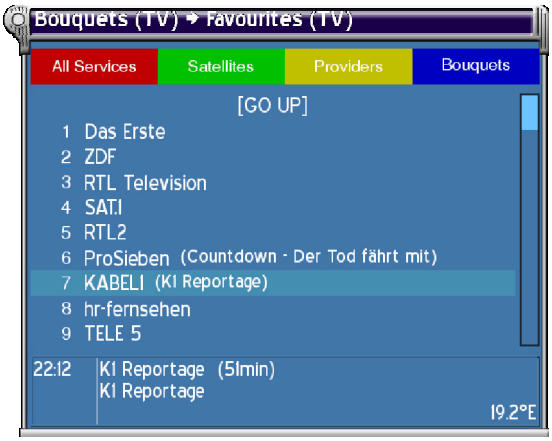


Bluenigma BIG

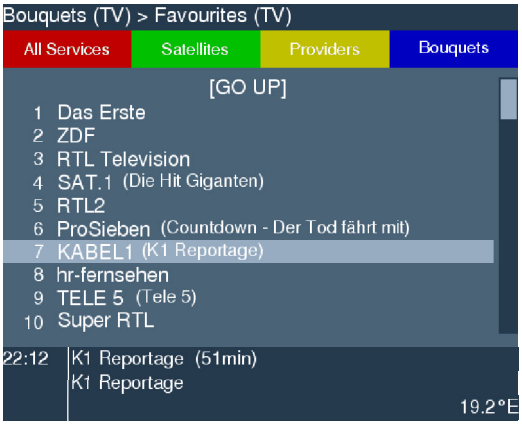
Neutrino-Style



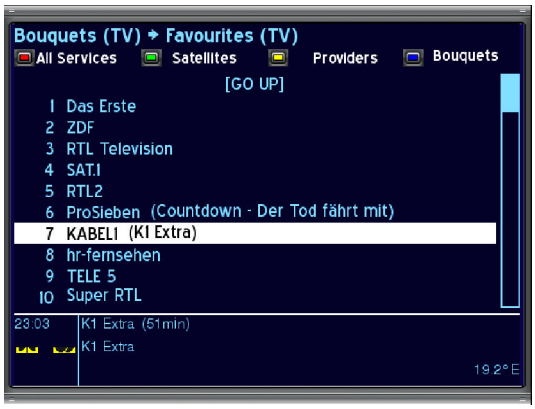
Screwed Stone



Silver Metal



Simple and Stylish

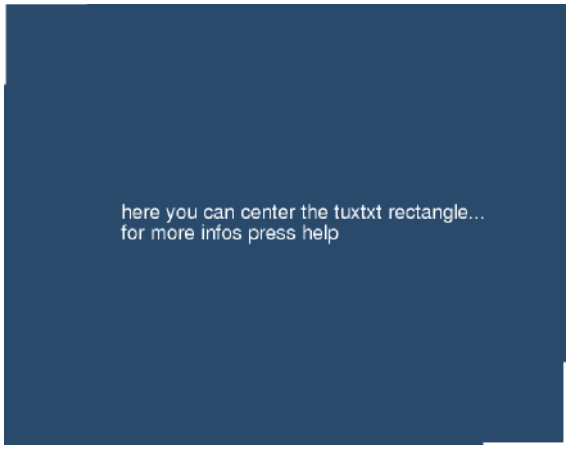


Carbon

32.3. TuxText position

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (3) System Settings -> (4) OSD Settings, press the yellow Option-Button (TuxText position).

This Menu is used to adjust the Position of the TuxText. Maybe the Clock does not appear or the Text pages are not shown in the middle of the screen.



Press the **HELP-Button** for more information.

The **red Option-Button** enables the Top left Point of the rectangle.

The **green Option-Button** enables the Bottom right Point of the rectangle.

Use the Navigation-Buttons down/right for the Top left rectangle and up/left for the Bottom right rectangle to adjust.

Press the **OK-Button t**o exit

Attention:
If you don't see any rectangle, then they are out of range. Please adjust the rectangle into the middle of the screen.

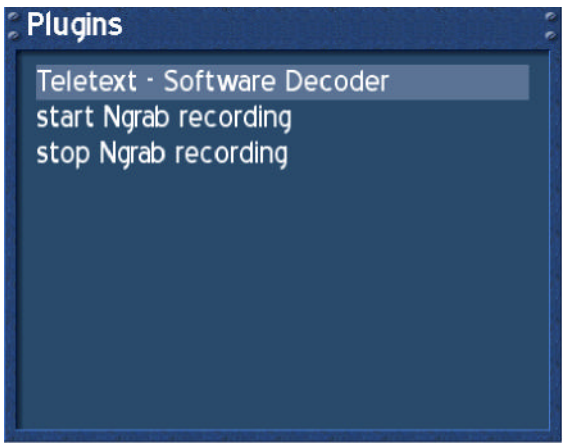
33. Teletext - Software Decoder

(TuxText) ***What is TuxText?*** TuxText is a Plugin (additional Software), which allows the Dreambox to decode the digital Teletext. TuxText is faster and easier to use.

Press the **OK-Button** to bring up the Infobar to be sure the PVR-Mode is not activated.
The **blue Option-Button** activates in this mode the Plugins menu.

The PVR-Mode is activated if the Infobar shows the PVR control symbols. The blue Option-Button controls the fast forward function in this mode. Press the **VIDEO-Button** to deactivate the PVRMode.

Please remember, not every service provides Teletext Information!



Press the **blue Option-Button**, the Plugins menu appears. Press the **OK-Button** to activate the "Teletext - Software Decoder" (TuxText).

TuxText interactive Navigation:

Press the **OK-Button** to enter the interactive mode. Use the Navigation-Buttons to select a text page and press the OK-Button to call this site. You don't need to type in a Text page number in this mode.

Press the **EXIT-Button** to exit.

TuxText viewing options:
Press the **Volume-Mute-Button** a couple of times to switch to alpha-mode, invisible-mode and full mode. The alpha-mode shows the picture from the running program through the Text pages.
The invisible-mode shows the complete picture from the running program without exiting the TuxText. The full-mode brings back the Textpage.

Press the **Volume + Button** to toggle between double high from the upper half, double high from the lower half and full view Text page.

Press the **Volume - Button** to activate or deactivate the PIG-Mode (Picture in Graphics). Same view from Text page and Program picture. (best results are show on 16:9 TV's during 4:3 transmission).

TuxTxt Configurations menu:
Press the **MENU-Button** to enter the TuxText configuration menu.

Teletext - Auswahl:
Use the **Navigation-Button left or right** to choose another Teletext provider from the current Transponder and press the **OK-Button** to view.

Bildschirmformat (Aspect Ratio):
16:9 im Standard-Modus = ein/aus (16:9 during Standard-Mode = enable/disable)
Enabling this, shows the TuxText in 16:9 Aspect Ratio. Press the OK-Button to enable or disable. Default is disabled.

16:9 im TextBild-Modus = ein/aus (16:9 during TextPicture-Mode = enable/disable)
Enabling this, switches the TV to 16:9 Aspect Ratio if the PIG-Mode is activated with the Volume - Button. Press the OK-Button to enable or disable. Default is disabled

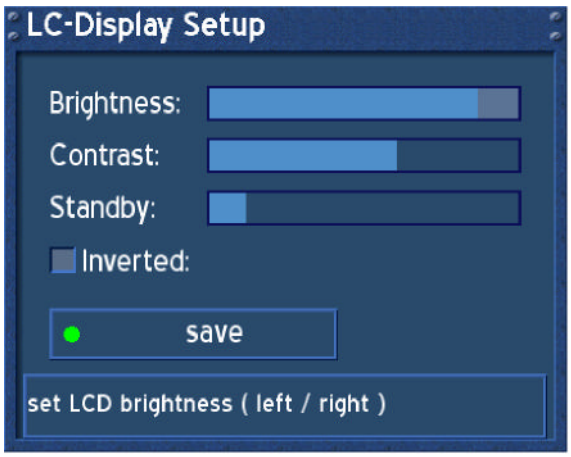
Attention:
On some older 4:3 TV's these Modes may not work. If enabled, it could happen, that your TV switches away from the VCR or A/V socket. The reason is a technical problem. The Switch signal on the Scart connector is at PIN 8 using 12 Volts. Using a 16:9 Aspect Ratio switches the PIN 8 to 6 Volts, which some older 4:3 TV's can not handle. If you are using a 4:3 TV, we suggest not to enable these odes.

Helligkeit (Brightness):
Anzeige 1/3 reduzieren = ein/aus (Display 1/3 reducing)
Enabling this, reduces the Brightness by 1/3. It makes the Display of the TuxText smoother. If you are watching Teletext Subtitles it's recommended to disable. Press the **OK-Button** to disable or enable. Default is enabled.

nationaler Zeichensatz (national Codepage):
automatische Erkennung = ein/aus (automatic detection = enable/disable)
The national Codepage detection is used to display the Teletextpages with the right letters for your location. Press the **OK-Button** to disable or enable. Default is enabled. If disabled, use the Navigation-Buttons left or right, to choose your Codepage.

34. LCD Settings

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (3) Sytem Settings -> (6) LCD Settings.



The LC-Display Setup is used to adjust the Brightness of the LCD at your Dreambox. Use the Navigation-Buttons left or right to adjust the Brightness, Contrast and Standby.

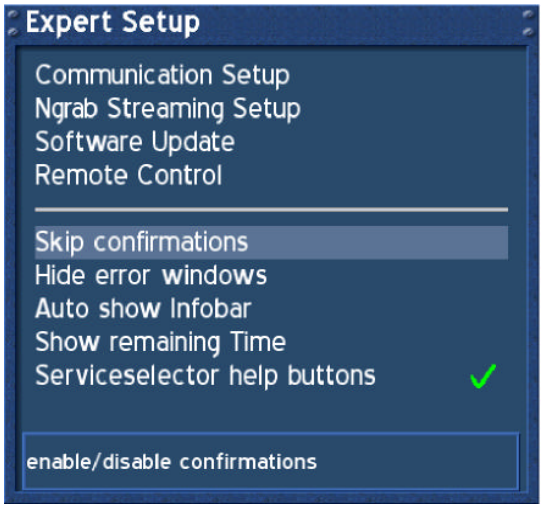
Standby is used to adjust the Brightness in Standby-Mode.

All adjustments take effect immediately.

Checking the Checkbox "Inverted", inverts the LCD.
Press the **green Option-Button** to save.

35. Expert Setup

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (6) Expert Setup.



Skip confirmations:

Press the **OK-Button** to set a toggle. No more confirmation windows will be shown. Be careful with this option. The System doesn't ask anymore, if you would like to see the recorded movie after stopping recording. Nor if you would like to really delete a movie. Default is disabled.

Hide error windows:

Press the **OK-Button** to set a toggle. All error windows will not be shown. E.g. Service not found. Default is disabled.

Auto show Infobar:

Press the **OK-Button** to set a toggle. Every time a new program starts, the Infobar will be shown automatically. Default is disabled.

Show remain Time:

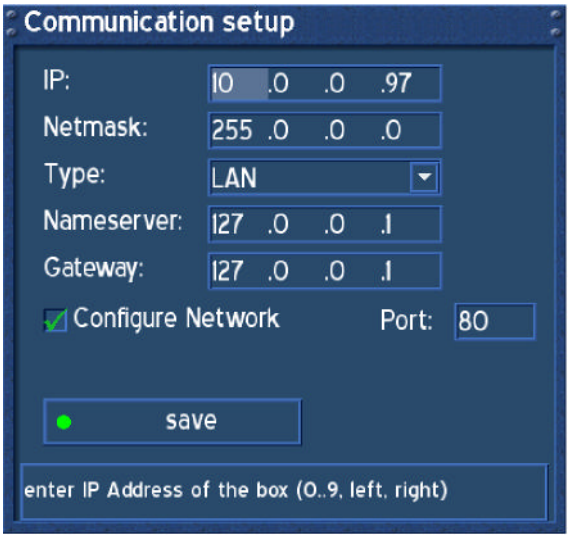
Press the **OK-Button** to set a toggle. The remain Time of the running program will be shown instead of the complete Time. Default is disabled.

Serviceselector help buttons:

Press the **OK-Button** to unset the toggle.
The Service selector help buttons won't be shown.
Default is enabled.

35.1. Communication (Network, LAN Setup)

Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (6) Expert Setup -> select Communication Setup.



Use the Navigation-Buttons and the Numeric-Keyboard to set the Values.

IP:
Enter the IP-Address here. The IP-Address is used to specify the Host IP-Address.

Netmask:
Enter the Netmask here. The Netmask is used to find an Host IP-Address in its Subnet.

Type:
LAN (Local Area Network); Connection to the home Network. Default is LAN.

WAN/PPPoE (Wide Area Network) / (Point-to-Point Protocol over Ethernet); Direct Connection to the Internet, (e.g. DSL Modem direct connected to the Dreambox). Please proceed to next passage for WAN settings.

Nameserver:
Enter the DNS-Server IP-Address here. DNS is used to translate a Domain name to an IP-Address. Normally, if the Type is set to LAN, there is no need for a DNS entry. If the Dreambox is connected to the Internet over a Router, enter the Router's IP-Address here.

Gateway:
Enter the Router's IP-Address here, if the Dreambox is connected to the Internet over a Router.

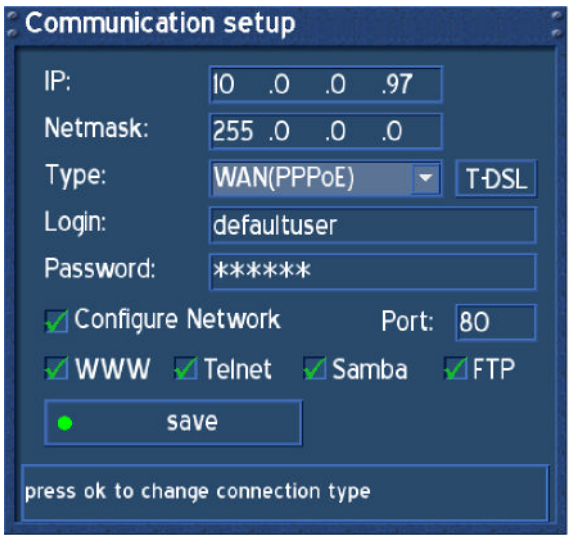
Configure Network:
Setting a check enables the Network. Default is disabled.

Port 80:
Enter a Port of your choice to configure the HTTP Port for the Dreambox Web Interface. Default is Port 80.

Attention:
If you are using a DHCP Server in your LAN, configure the DHCP Server so as not to assign an IP-Address which the Dreambox is using. The Dreambox does currently not support DHCP. Otherwise an IP-Address collision is possible. Refer to the DHCP Server Manual about how to configure a DHCP-Address-Pool.

35.2. Communication (Network, WAN (DSL) Setup)

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (6) Expert Setup -> (1) Communication Setup.



Navigate to Type, press the **OK-Button** and select WAN(PPoE). Use this Type of Connection only, if the Dreambox is connected directly to a DSL Modem.

T-DSL is used to enter the Account information only for German T-Com users.

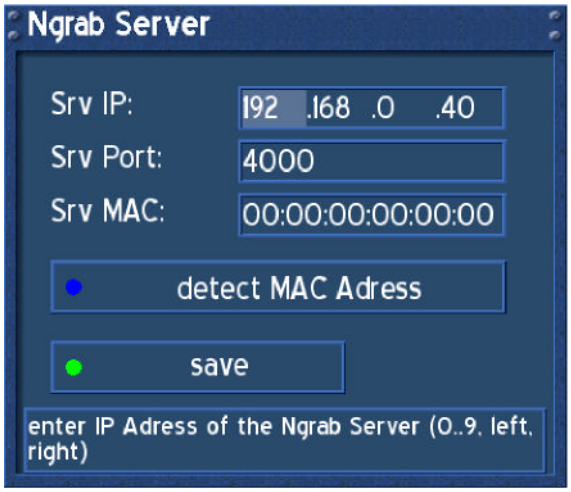
Login:
Enter the Loginname provided from your ISP (Internet Service Provider).

Password:
Enter the Password provided from your ISP.

The Dreambox provides firewall functionalities on the following Ports:
80 HTTP, 23 Telnet, 137, 138, 139 Samba and 21 FTP. Uncheck the desired Checkbox to allow incoming connections.

35.3 NGrab Streaming Setup

Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (6) Expert Setup -> (2) Ngrab Streaming Setup.


Ngrab Server
Srv IP: 192 .168 .0 .40
Srv Port: 4000
Srv MAC: 00:00:00:00:00:00
detect MAC Adress
save
enter IP Adress of the Ngrab Server (0..9, left, right)

Ngrab Server is used to record a movie over the Network to another PC. First install the Ngrab Server Software on a PC and configure it referring the manual from the Software.

Srv IP:
Enter the IP-Address of the PC on which the Ngrab Server Software runs.

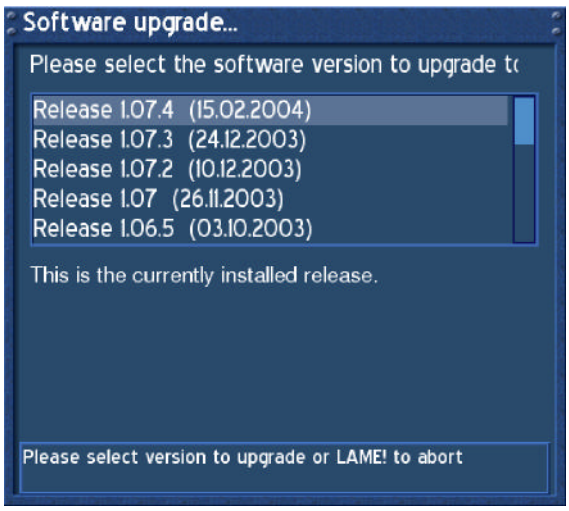
Srv MAC:
The Ngrab Server Software must be started and configured, before detecting the MAC-Address of the PC. Press the **blue Option-Button** to start detecting.

Srv Port:

Enter the Server Port-Address which is configured in the Ngrab Server Software.
The MAC-Address is used for the WOL (Wake On LAN) function, which must be supported by the PC's NIC (Network Interface Card). This is a pretty good feature, because you can configure a PC to use full APM (Advanced Power Management). The PC awakes upon access through the NIC and the Ngrab recording starts.

35.4. Software Update over Internet

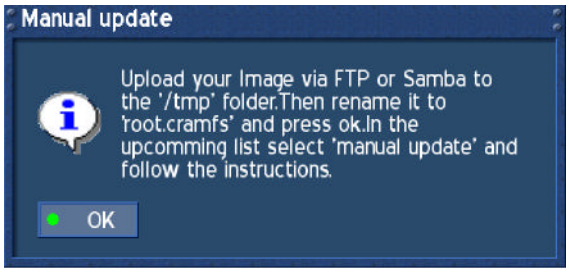
Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (6) Expert Setup -> (3) Software Update -> select Internet Update.


Software upgrade...
Please select the software version to upgrade t
Release 1.07.4 (15.02.2004)
Release 1.07.3 (24.12.2003)
Release 1.07.2 (10.12.2003)
Release 1.07 (26.11.2003)
Release 1.06.5 (03.10.2003)
This is the currently installed release.
Please select version to upgrade or LAME! to abort

The Internet Update function only works, if you have configured the Network, and the Dreambox is connected to ether a Router or a DSL-Modem. This window shows the currently installed Software. The latest release is always on top of this list. Select your Software upgrade by pressing the **OK-Button** and follow the instructions on the screen.

35.5. Software Update manual

Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (6) Expert Setup -> (3) Software Update -> select Manual Update.


Manual update
Upload your Image via FTP or Samba to the '/tmp' folder.Then rename it to 'root.cramfs' and press ok.In the upcomming list select 'manual update' and follow the instructions.
OK

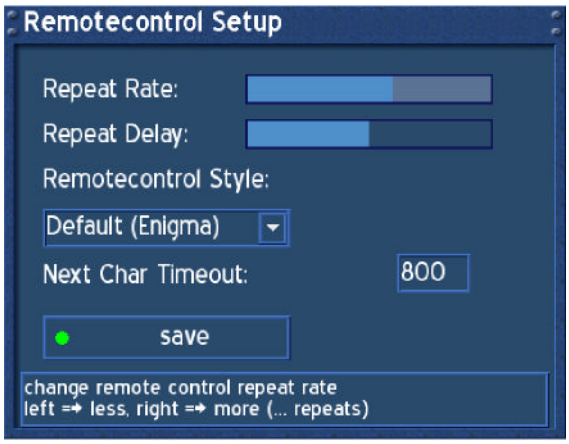
The manual Software upgrade is used, if the Dreambox is not connected to the Internet, but has the Network configured for LAN.

Download an image from http://www.dm7020.de

Follow the Instructions from this window.

35.6. Remote Control

Press the **MENU-Button** to enter the OSD-Main menu.
Go to (6) Setup -> (6) Expert Setup -> (4) Remote Control.



This Menu is used to customize the Remote Control to your needs. Use the Navigation-Buttons left or right to adjust the Repeat Rate and Delay.

Navigate to Remote control Style to select another Style.

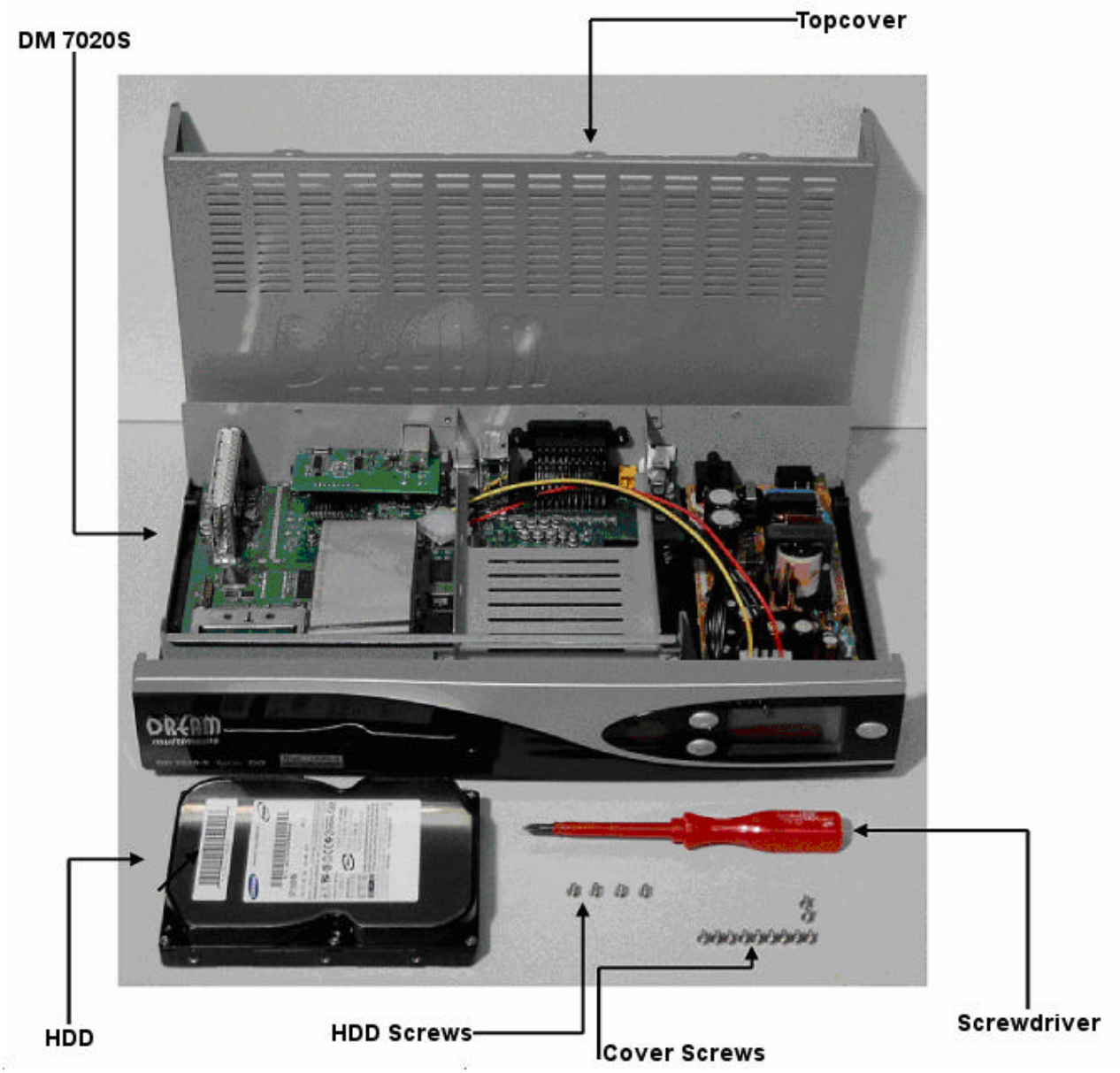
Change the Value "Next Char Timeout" for your needs. Try this setting.

Press the **green Option-Button** to save.

36. Hard Disk - Assembly Instructions

Unplug any cable from the Dreambox. Do not touch any Parts on the PCB. Please take care about ESD. Make sure you are shielded before opening or touching the device. Do not open the Dreambox in your living room on the carpet or any other electrostatic loaded floors. Open the Dreambox only with the described tools. If this all does not say anything to you, please consult your local dealer for assistance. Before opening the device read the Safety Instructions.

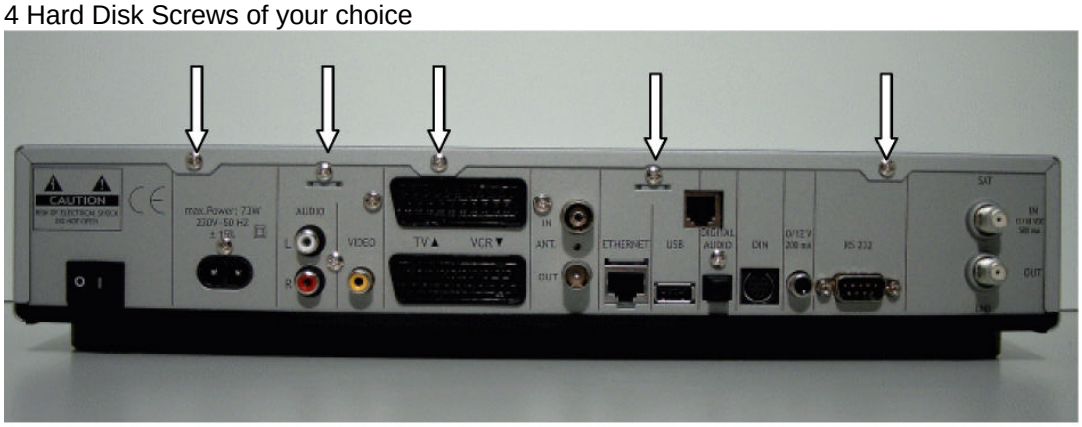
This Picture shows all needed parts.



Part-List

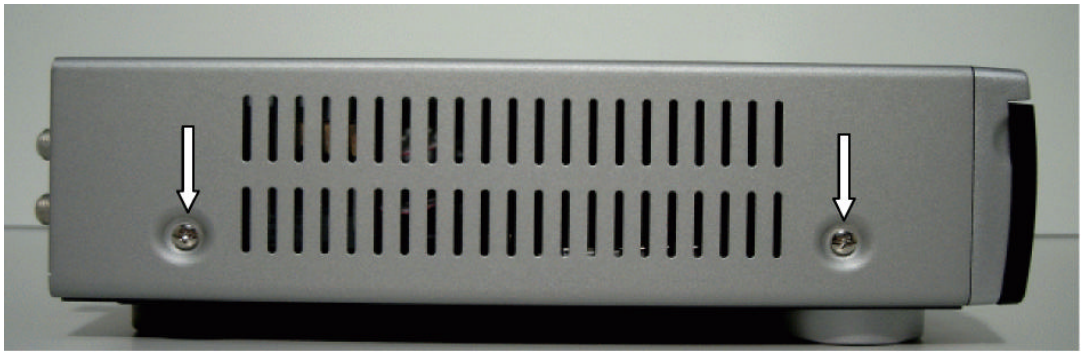
1 Dreambox (includes Top cover, Screws (left, right, rear))

1 Philips-Screwdriver
1 Hard Disk
1 IDE-Cable
1 Molex-Power-Cable
2 Mounting racks (build in by default)
4 Hard Disk Screws of your choice



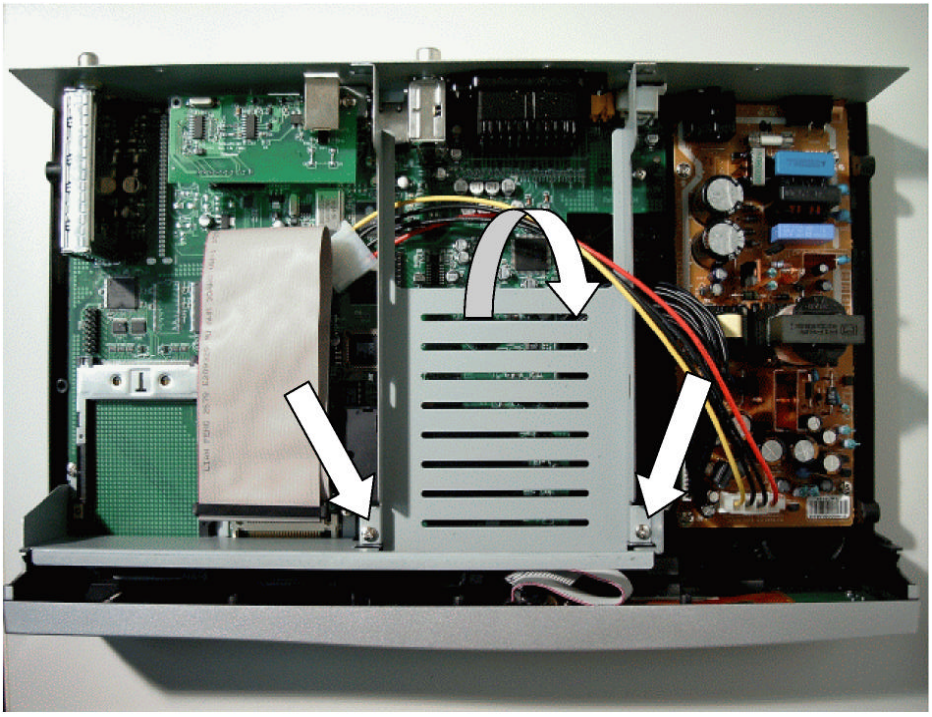
Unscrew the screws from the rear using the screwdriver.

Unscrew the two screws from the right side.



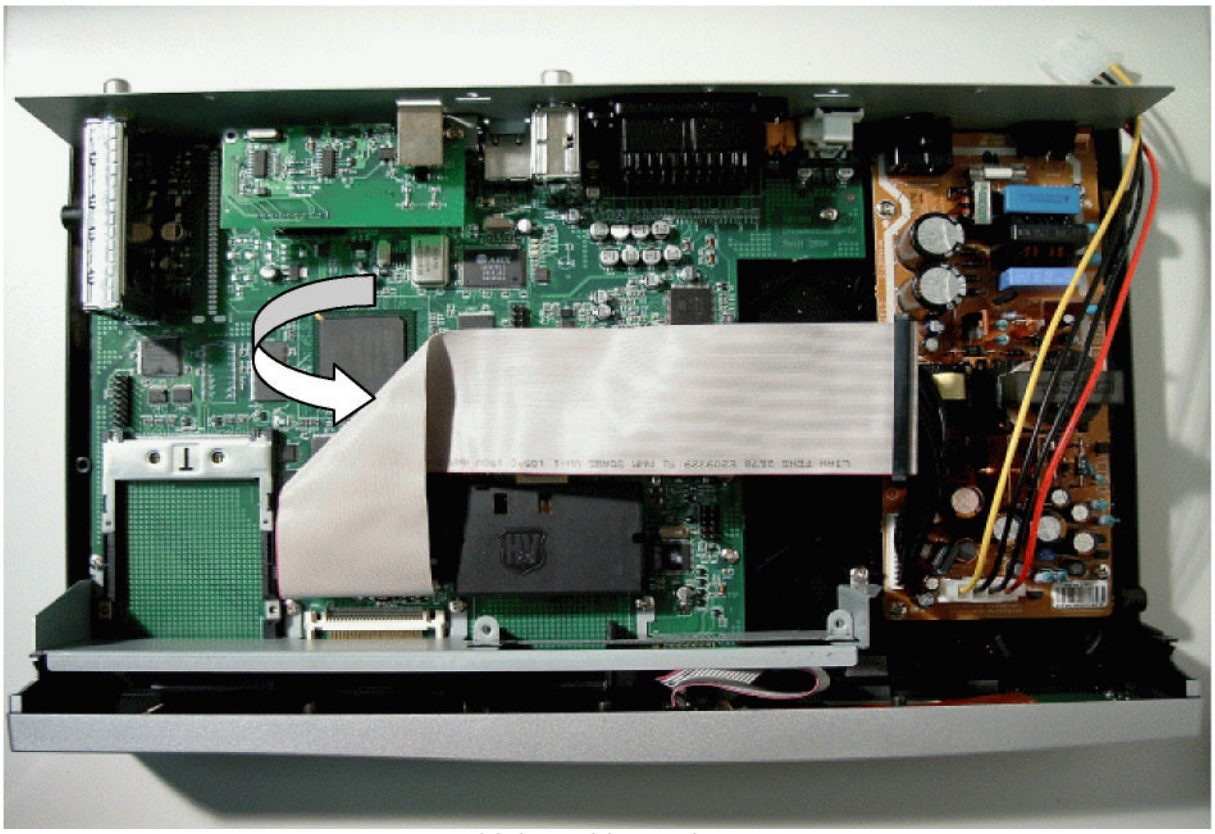
Unscrew the two screws from the left side.

Remove the cover.

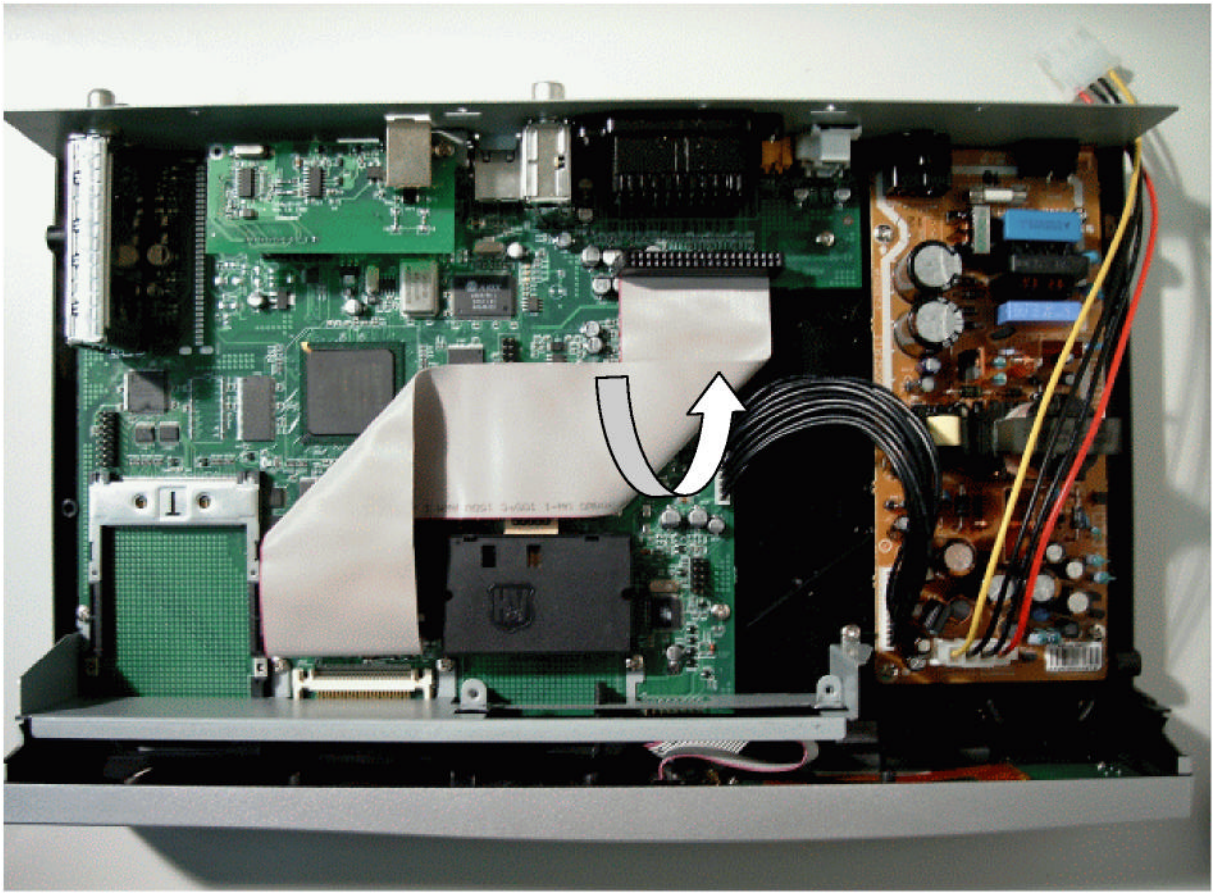


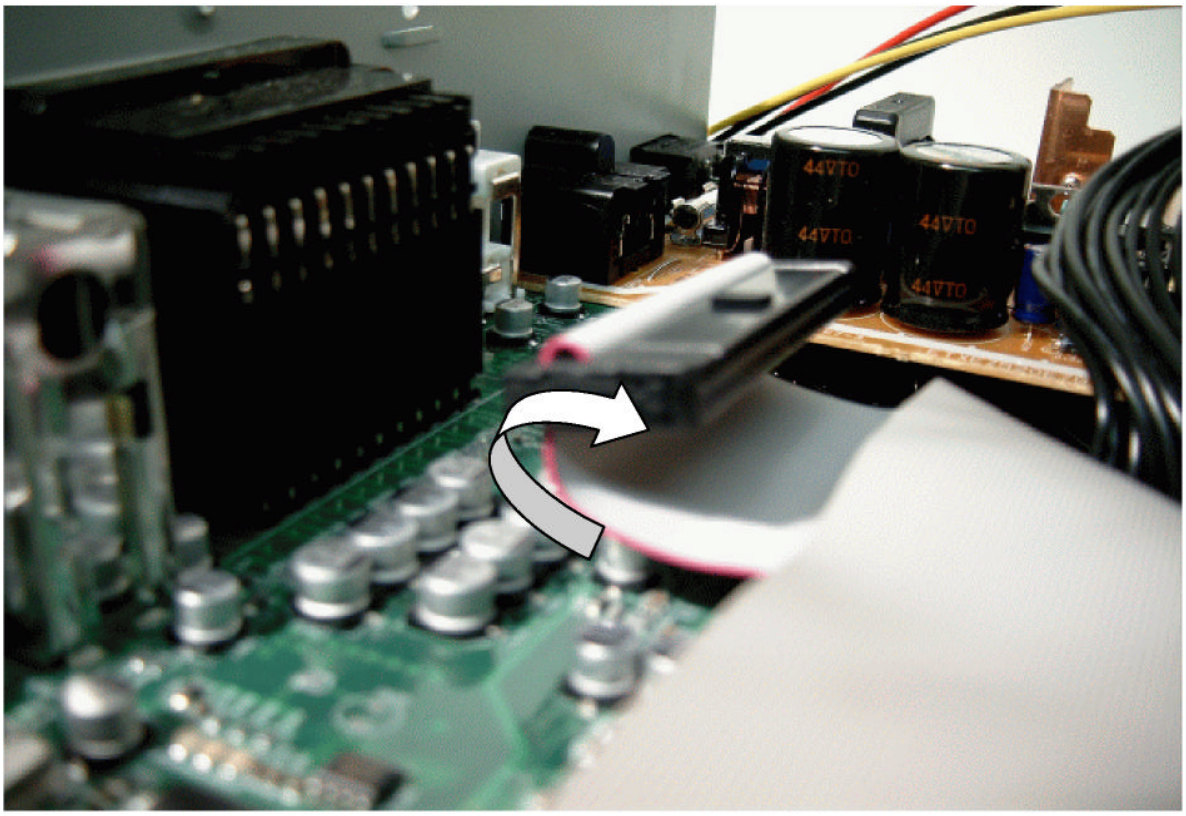
Remove the hard disk mounting bay by unscrewing the 2 highlighted screws.

Now you can see the IDE-Connector (white or black 40 Pin connector) and the Power-Connector (4 Pin connector).



Fold the cable as shown.



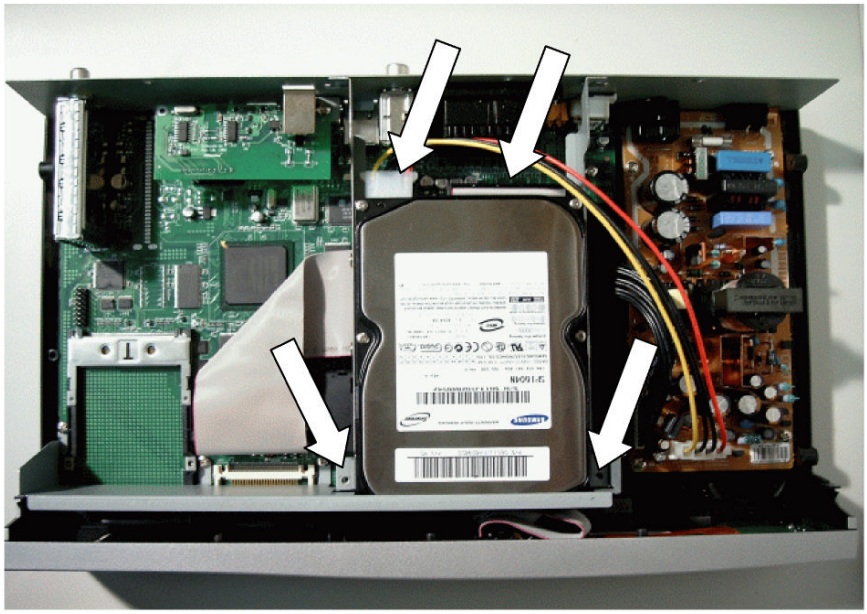


Fold the cable again as shown above.

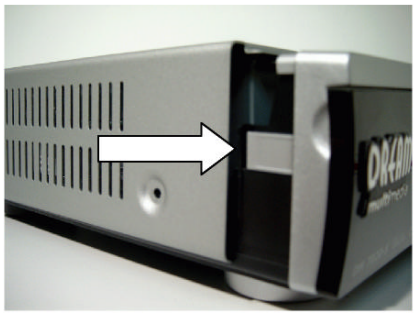
Now you need the hard disk, the screwdriver and the mounting bay.

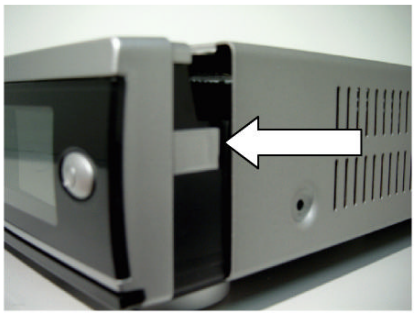
Mount the hard disk on the mounting bay.

Set the Hard Disk Jumper to "Master“. Refer to the Hard Disk manual how to set these jumpers.



Connect the power connector and the data cable. Then screw the 2 screws back in.

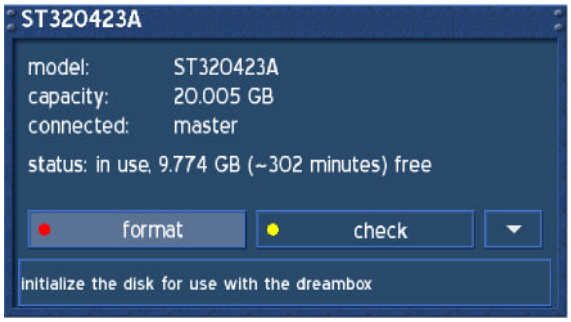




Remount the cover. Be careful not to break these plastic-clips. Screw the casing screws back in and connect your cables to your Dreambox, the power chord at last

37. Hard Disk Setup

Press the **MENU-Button** to enter the OSD-Mainmenu.
Go to (6) Setup -> (3) System Settings -> (3) Harddisc Setup -> select the Harddisc.



This Menu shows the major Information about the installed Harddisc.

Before formatting the Harddisc, please select from the right arrow dropdown menu a filesystem which the Harddisc will be formatted with. Choose an "ext3" file system pressing the **OK-Button**.

Press the **red Option-Button** to format.

Press the **yellow Option-Button** to check the File system.

Please shutdown the Dreambox after formatting.

38. Recording a movie (spontaneous recording)

Attention:
The Infobar disappears after a couple of seconds. Press the OK-Button to bring up the Infobar.

During PVR-Mode the Option-Buttons are assigned as follows:

RADIO-Button: start recording
TV-Button: stop
red Option-Button: fast rewind **green Option-Button:** start playback **yellow Option-Button:** pause
blue Option-Button: fast forward

Select a Service you want to record from the Service list. This could be either a TV or Radio service. Press the VIDEO-Button to activate the PVR-Mode. The Infobar shows the PVR control symbols. Press the RADIO-Button to start a spontaneous recording. During recording, the Infobar displays a little blinking red dot. This means that a recording is still in process.

You can watch another service from the same Transponder during record. Press the Navigation-Button up or down to bring up the Service list. All possible services will be shown. Select another service. The recording proceeds in the background.

Remember to press the **VIDEO-Button** to activate the **PVR-Mode** after switching to another service during recording.

You can also watch a recorded service during record. Press the Navigation-Button up or down to bring up the Servicelist. Press the TEXT-Button to show all recorded movies. Select a movie by pressing the OK-Button. The recording proceeds in the Background.

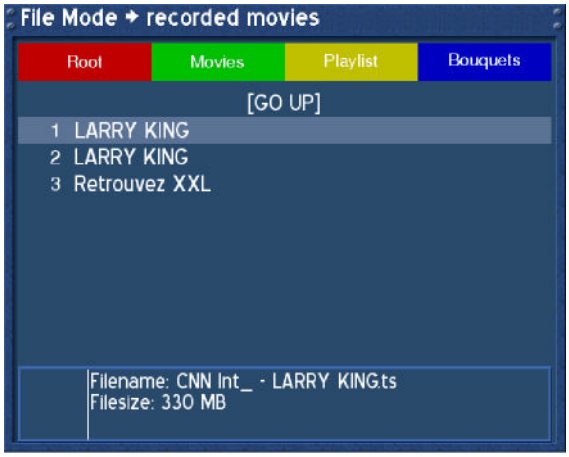
Remember always to activate the PVR-Mode before controlling a recording or play of a service by pressing the VIDEO-Button.

Press the **TV-Button** to stop recording.

38.1. Viewing/deleting/renaming recorded movies

Press the **MENU-Button** to enter the OSD-Main menu. Go to (3) File Mode.

You can also enter the File-Mode using the Navigation-Buttons up or down without entering the OSD-Main menu, to bring up the Service list. Press the **TEXT-Button** to enter the recorded movies list.



Watching:
Select a movie by pressing the **OK-Button**.
The Playback starts.

Remember always to activate the PVR-Mode before controlling a recording or play of a service by pressing the VIDEO-Button.

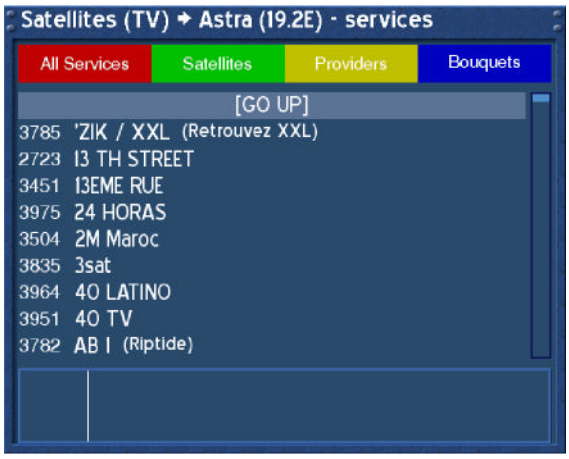
Press the **TV-Button** to stop playback.

Deleting:
Choose a movie to delete using the Navigation-Buttons up or down. Press the **MENU-Button**. The Service Menu appears. Select delete and press the **OK-Button**.

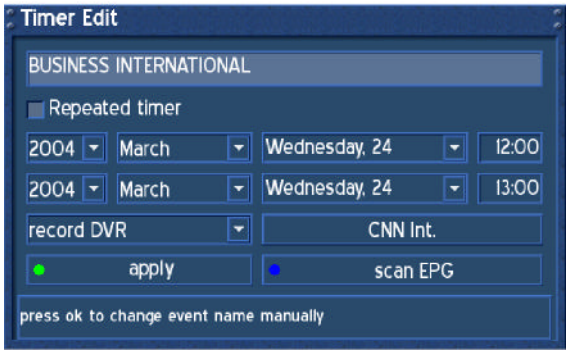
Renaming:
Choose a movie to rename using the Navigation-Buttons up or down. Press the **MENU-Button**. The Service Menu appears. Select rename and press the **OK-Button**. Change the Name of the Movie in the next window.

39. Recording a movie (Timer recording)

Attention: Timer recording is working in Standby-Mode and in Deep-Standby-Mode.



Open a Service list using the Navigation-Buttons up or down or pressing the TV-Button. Select a service you want to program into the Timer. Watch this service for a couple of seconds until the red EPG dot in the Infobar appears. Remember, not every service provides EPG Information's. Press the **red Option-Button**. Choose an event and press the **green Option-Button** to add it to the Timer.



The Timer Edit window appears.

Repeated Timer:

Set a check to enable this Event to record for a couple of days or the whole week.

You can change the starting and ending Time for this event by navigating to its desired fields. Type in the new Time with the Numeric-Keyboard.

Navigate to the Dropdown list "record DVR" to change the record method.

Possible methods are:

Switch - the Timer switches to this event. Record DVR - the Timer records this event. Ngrab - the Timer records to a Ngrab PC.

Press the **green Option-Button** to apply.

The Event will be marked as a Timer event in the Servicelist. Press the **EXIT-Button** to exit the Servicelist.

To verify a Timer event, press the **MENU-Button** to enter the OSD-Mainmenu, go to (9) Timer. The Timer list appears.

40. Timeshift

Activate the PVR-Mode by pressing the **VIDEO-Button**. Record at least a service for 1 minute. Now you can rewind, pause and forward the movie during record. This is a useful function, maybe the phone is ringing and you don't want to miss the running program.

41. Timer

Press the **MENU-Button** to enter the OSD-Main menu. Go to (9) Timer.

The Timer list keeps all programmed Timerevents. This could be a Sleeptimer or a Timerevent for recording or switching to a service.

A completed Timerevent will be listed with a green check in front.

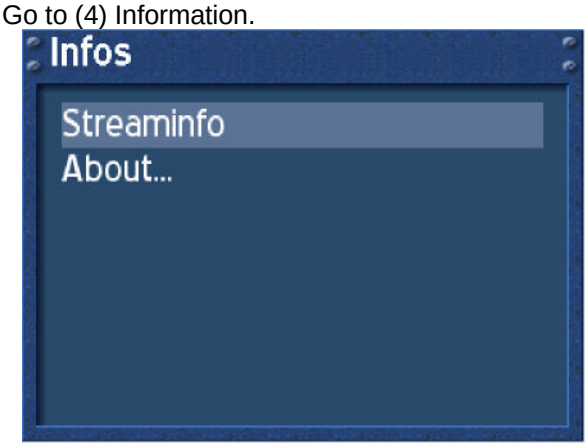
An aborted or missed Timerevent will be listed with a red cross in front.

Please add a Timerevent only from the EPG.

Press the **red Option-Button** to remove an entry.

42. Information - Streaminfo / About

Press the **MENU-Button** to enter the OSD-Main menu.
Go to (4) Information.

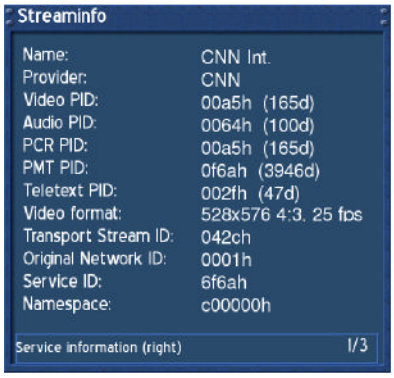


Press the **OK-Button** to enter the Streaminfo.

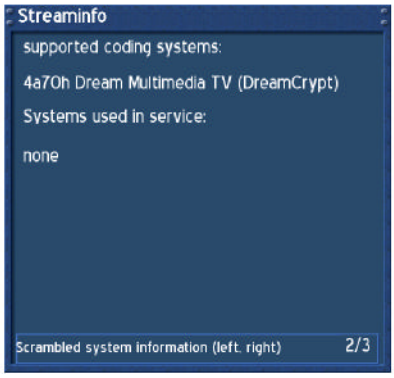
Use the **Navigation-Button right** to open the following windows. Use the **Navigation-Button left** to go back.

Navigate to “About” and press the **OK-Button** to enter.

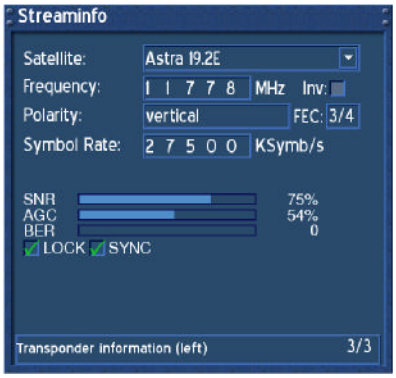
Press the **EXIT-Button** to exit.



This window shows detailed Information about the chosen Service.



This window shows Information about supported and used coding systems.



This window shows technical Information about the chosen Service.

This window shows the Manufacturer Product Type.

Processor Type
Frontend Type
Harddisc Vendor Infos

And the currently installed Software Release.

Press the **green Option-Button** to exit.

43. DreamUp - Software upgrade

!!!! Very important, please read this passage completely, before starting upgrading !!!!

DreamUp and the Images (Software) for the DM7020S are available at our Website www.dm7020.de.

Remove all cables from the Dreambox.
Connect only the serial and the Patchcable.
The Mainspowercord is disconnected.

You need a Windows PC with a serial port (COM1 or COM2) and an Ethernet card. Connect the Ethernet card with the Dreambox Communication port using a Crossover Patchcable. Connect the serial ports with a serial nullmodem cable.

How to figure out the IP-Address in Windows (W98,W2K,XP) :

Click Start -> Run -> type in "Command" -> press Return.

A Dosbox opens. Type at the Dosprompt "ipconfig /all" and press Return. The IP-Address will be listed. If you have more than one Ethernet adapter listed, then take the first adapter. If you don't see an IP-Address, maybe you have no Ethernet card installed or configured. Refer to Windows Help or consult a Technician for assistance.

Ethernetadapter "LAN-Verbindung":
Verbindungsspezifisches DNS-Suffix:
Beschreibung. . . . . : 3Com EtherLink 10/100 PCI TX NIC (3C905B-TX)
Physikalische Adresse . . . . . :
DHCP-aktiviert. . . . . : Nein
IP-Adresse. . . . . : 10.0.0.2
Subnetzmaske. . . . . : 255.0.0.0
Standardgateway . . . . . :
DNS-Server. . . . . :
Primärer WINS-Server. . . . . :

Note the IP-Address and Subnetmask.

43.1. DreamUp - Preparing DreamUp

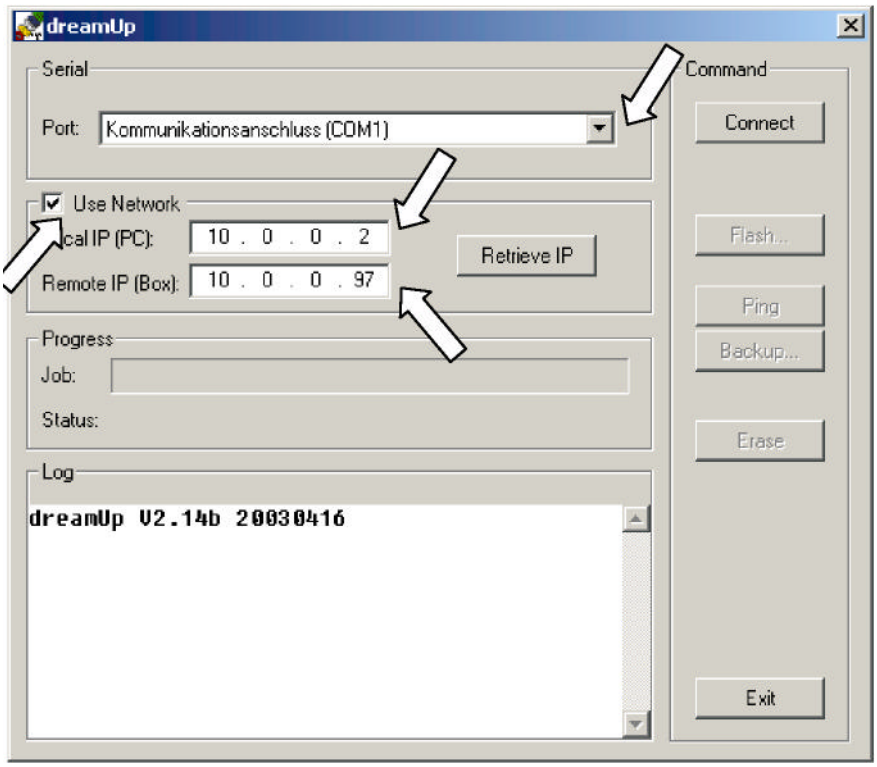
Start the Software DreamUp for DM7020 on your PC.

Choose the COM Port, which is connected to the Dreambox.

Make sure the Checkbox ***"Use Network"*** is checked. If not, the Software connects only serial. Type in the IP-Address from your PC ***"Local IP (PC)".***

Type in an IP-Address ***"Remote IP (Box)"*** for the Dreambox, e.g. 10.0.0.97.

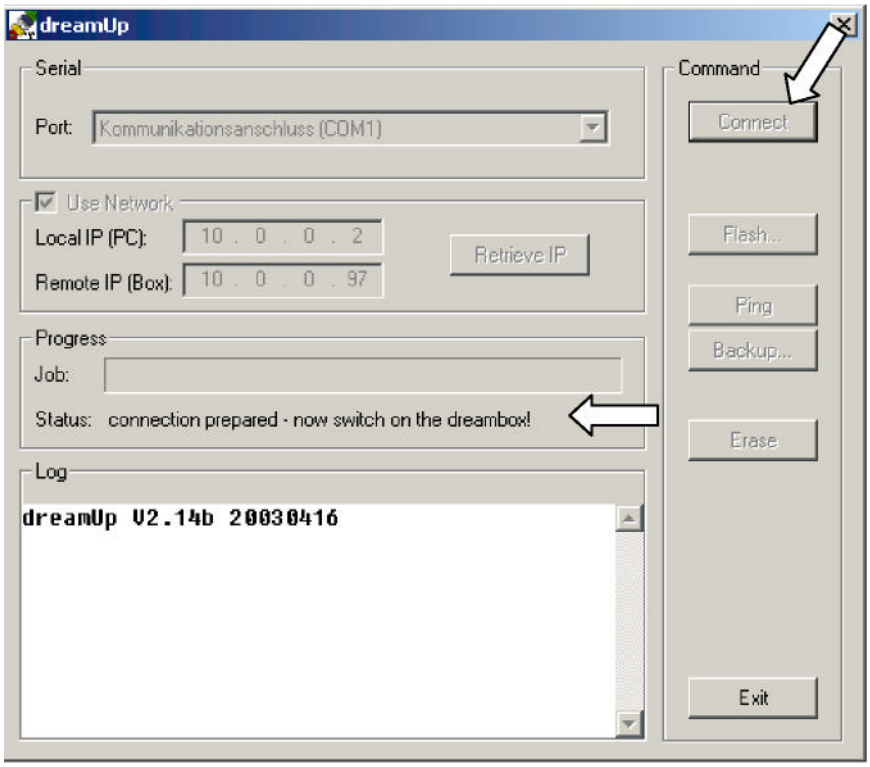
Make sure the IP-Address is not assigned to another Computer in your LAN, if the Dreambox is connected over a Hub, Switch or Router with an normal Patchable.
If you are using a Crossover Patchable to connect, then the IP-Address is not that important, but it must match to the chosen Subnet mask.



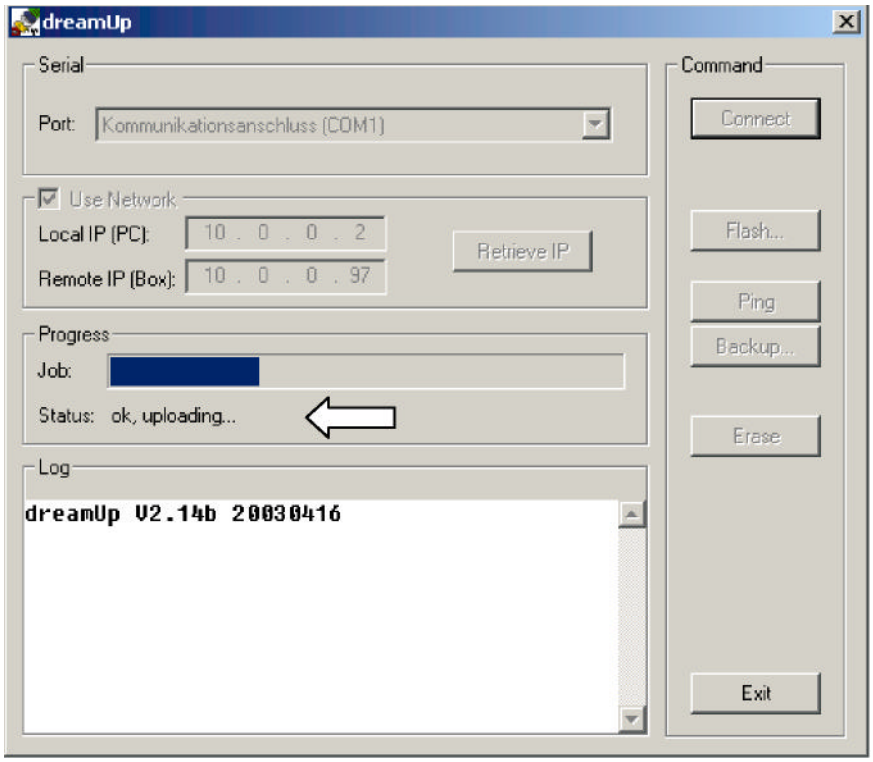
DreamUp is now prepared for flashing the image.

43.2. DreamUp - Establish a Connection

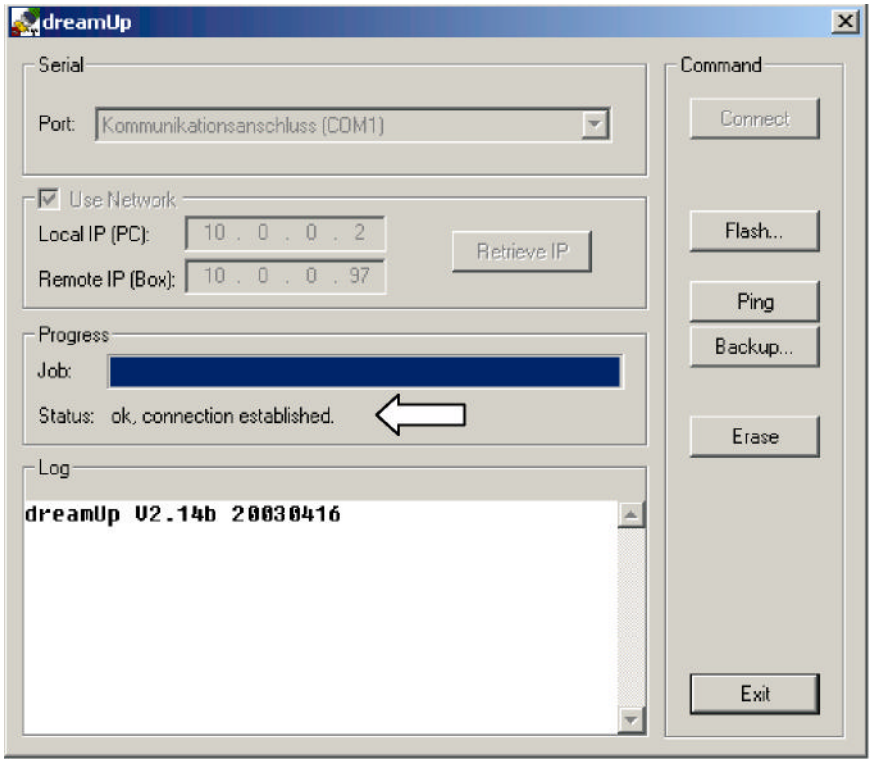
Click on the Connect-Button.



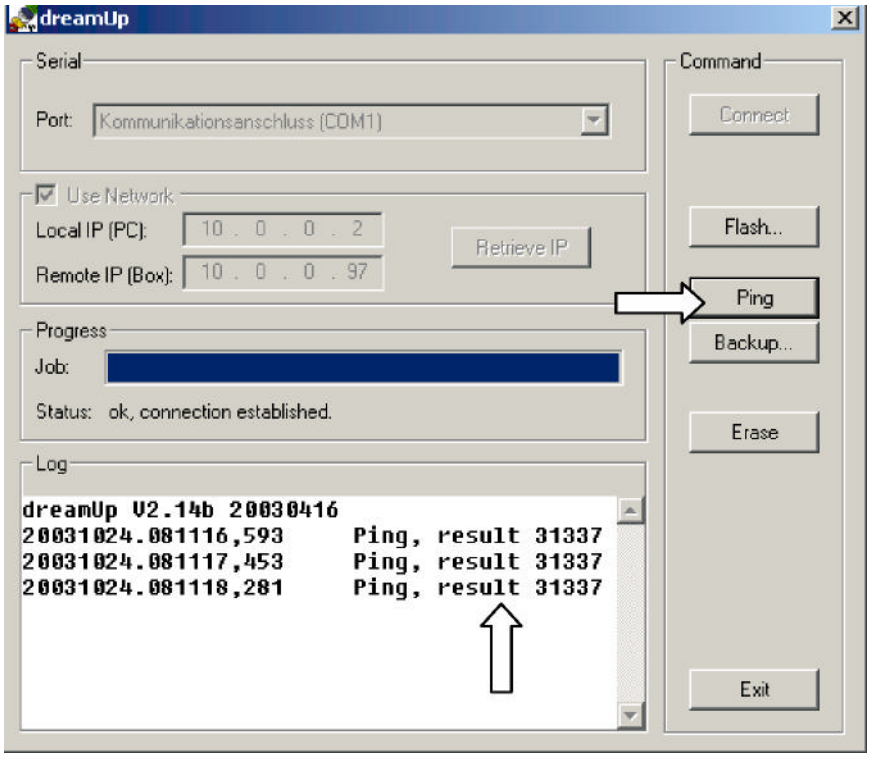
Dreamup tells you, that the Connection is prepared
Plug in NOW the Mainspowercord into the Dreambox.



After DreamUp has connected to the Dreambox, the other Buttons appear in black letters. You can now use them.

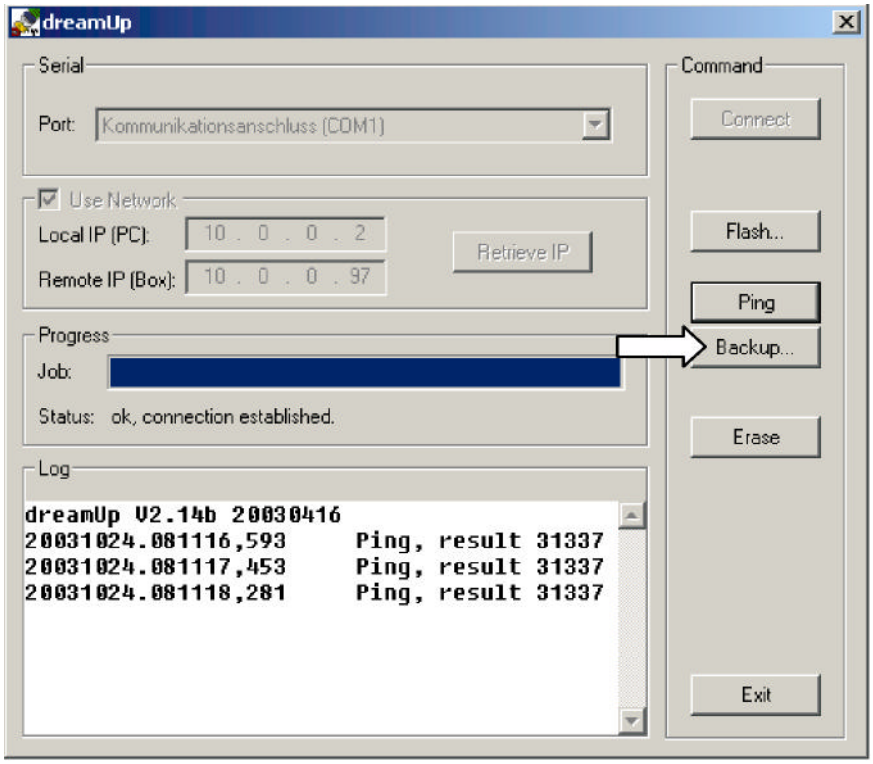


Click on the Ping-Button to test the Ethernet Connection. You will notice the Ping result in the Log window. If not, please check your Network configuration.

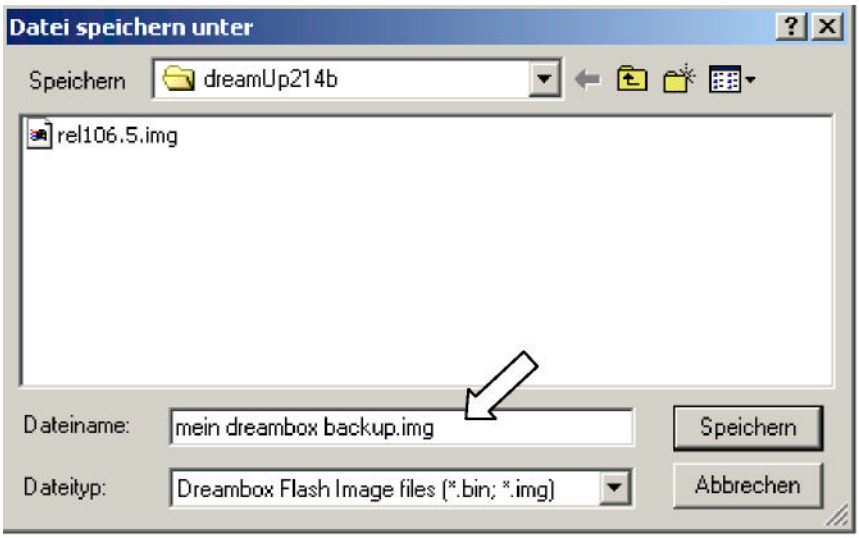


43.3. DreamUp - Backup Software

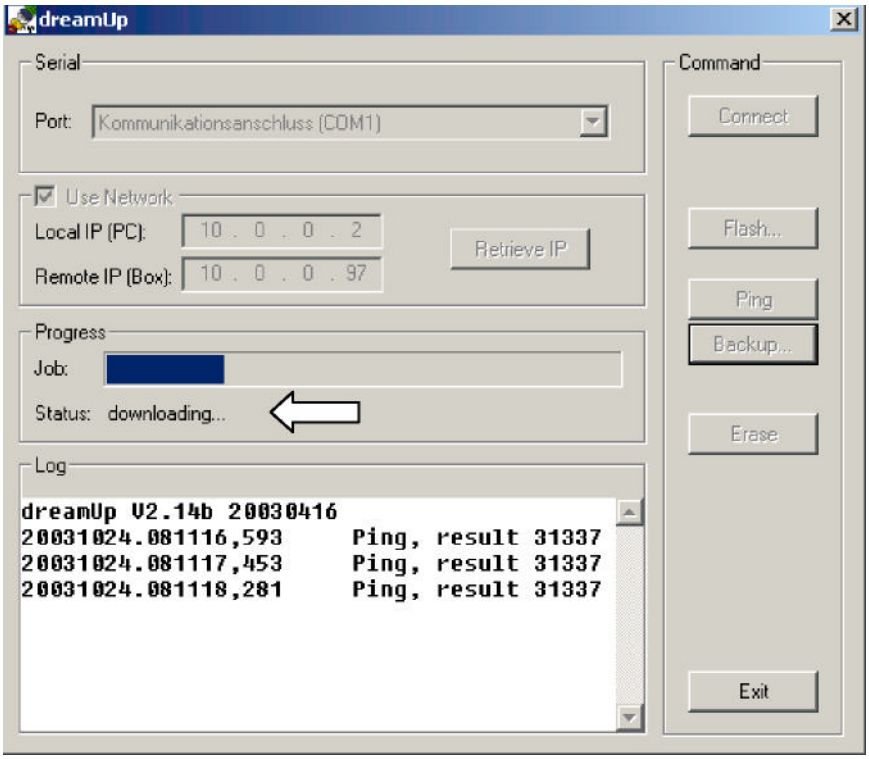
Clicking on the Backup-Button saves the complete installed Software with all your settings.



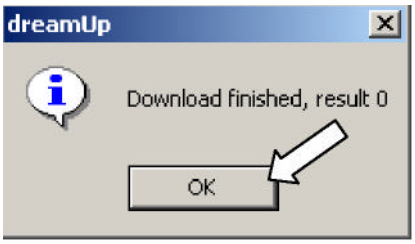
The file window opens. Type in any name of your choice plus the extension .img or .bin.



After clicking on the Save-Button the Software will be downloaded from your Dreambox.
Watch the Progress bar and Status.



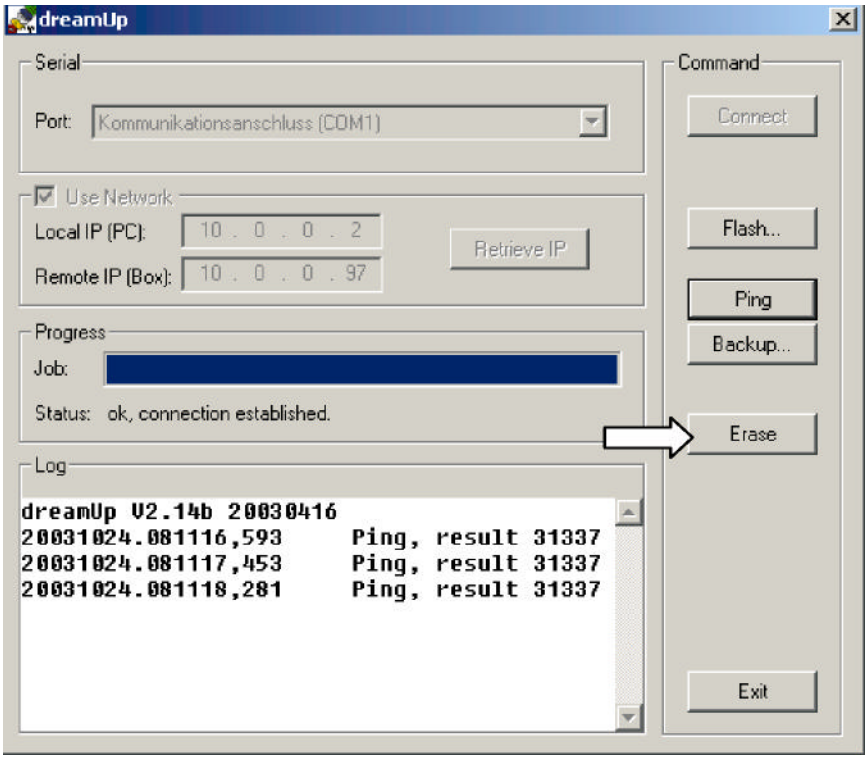
You get a message from DreamUp after downloading has been finished.
With result 0, everything is ok.



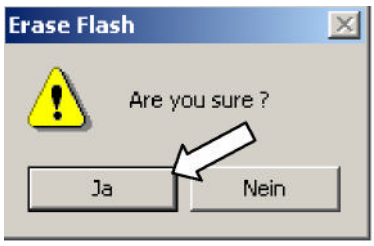
Click on the OK-Button to quit.

43.4. DreamUp - Erasing Software

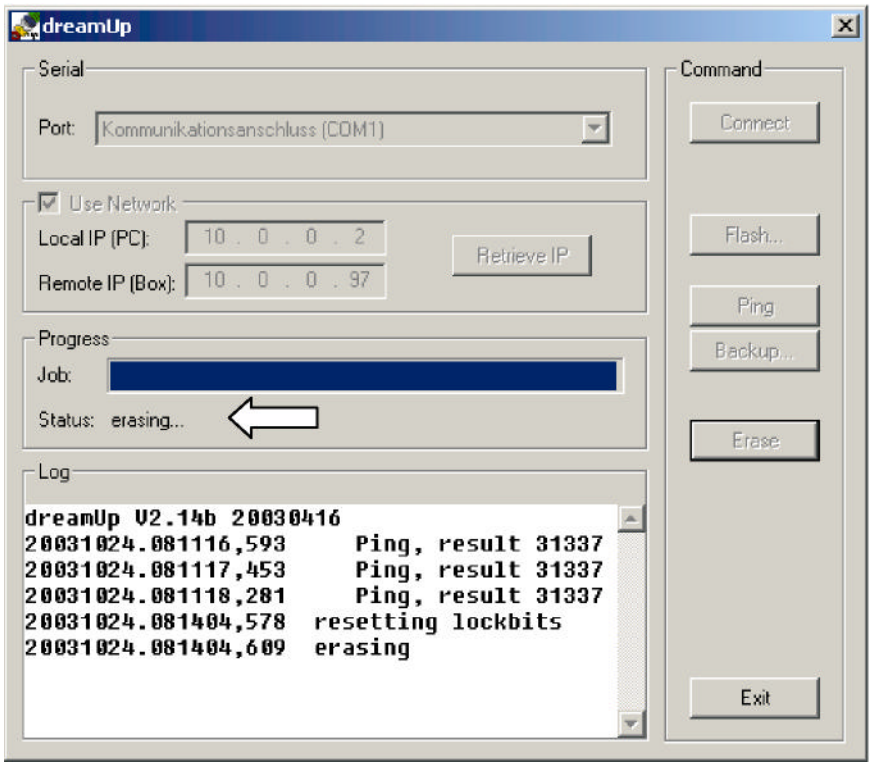
Click on the Erase-Button to erase the currently installed Software.
This is sometimes, but not always necessary.



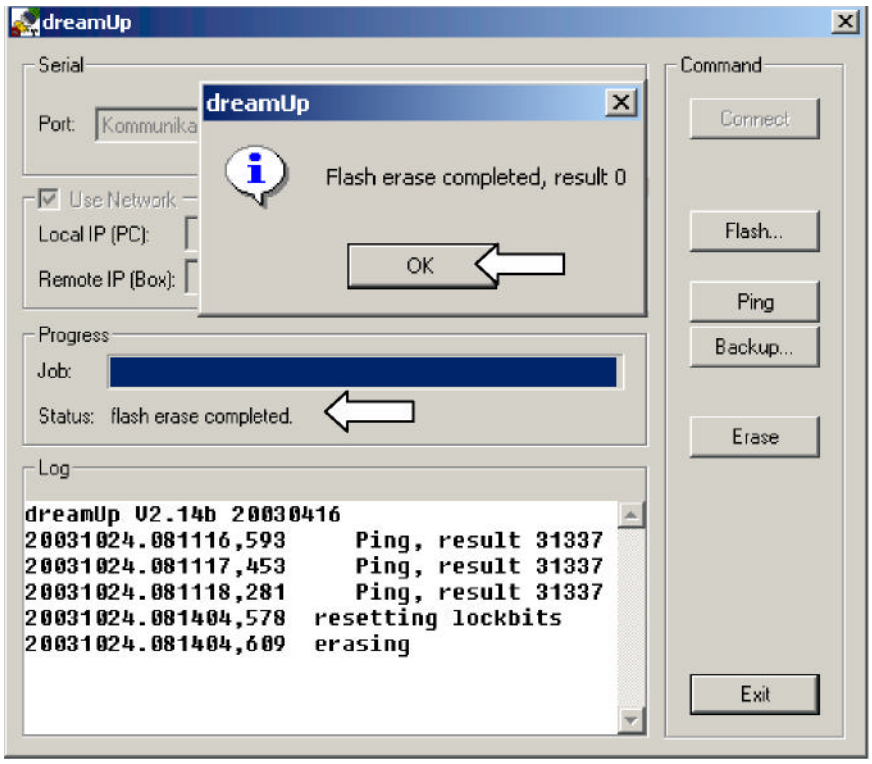
You will get a security question from DreamUp, if you are sure. Click the Yes-Button.



Watch the Progress bar and Status.

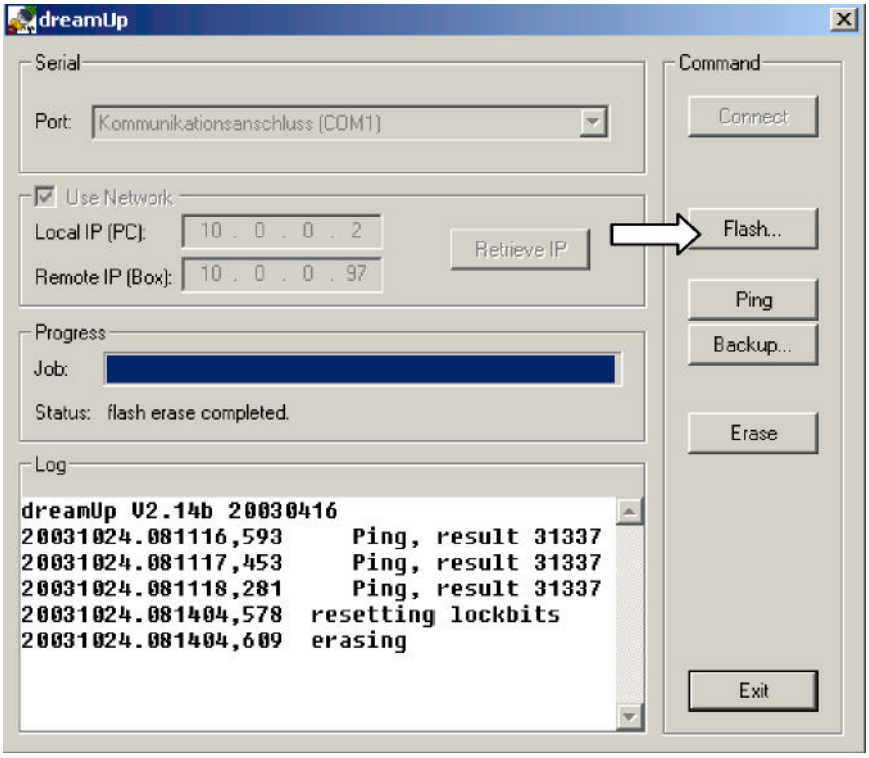


After erasing the Software, DreamUp tells you that everything is ok with a flash erase result 0. Click on the OK-Button to quit.

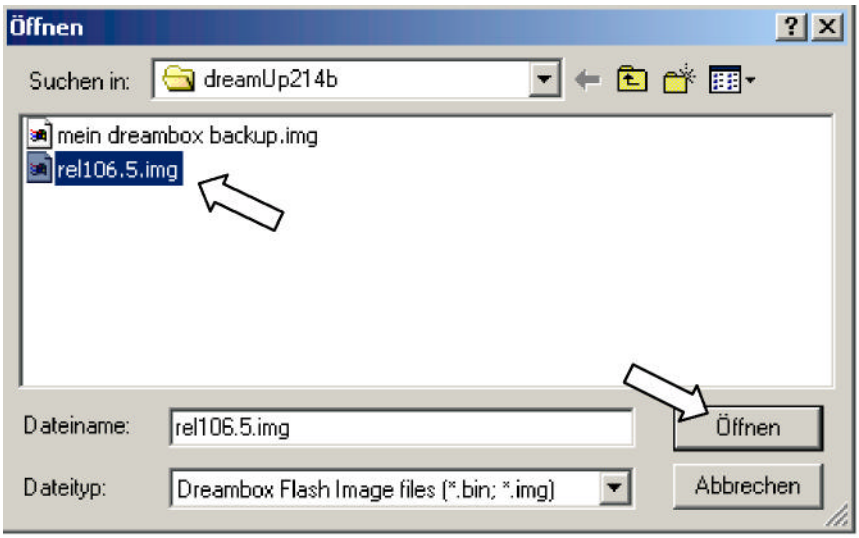


43.5. DreamUp - Flashing Software

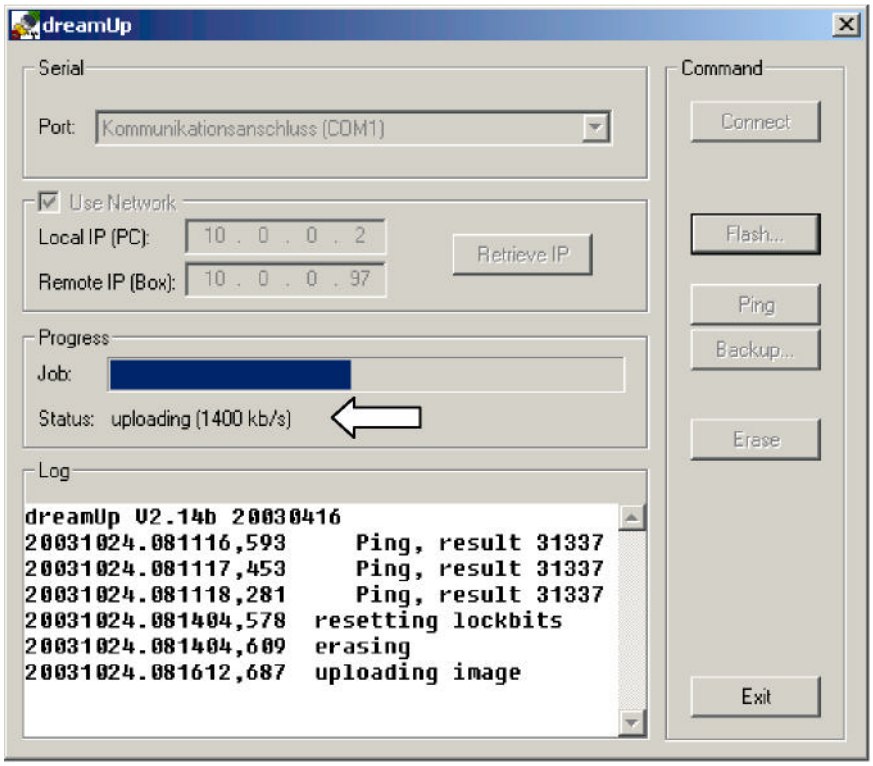
Click on the Flash-Button to select an Image file (Software).



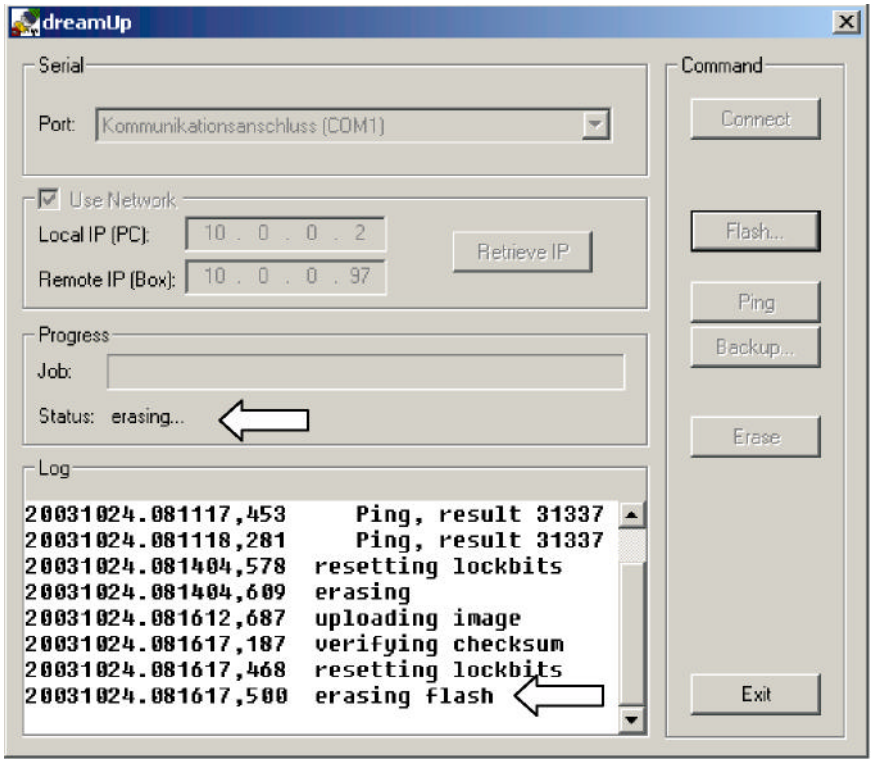
Choose an image file and click on the Open-Button.



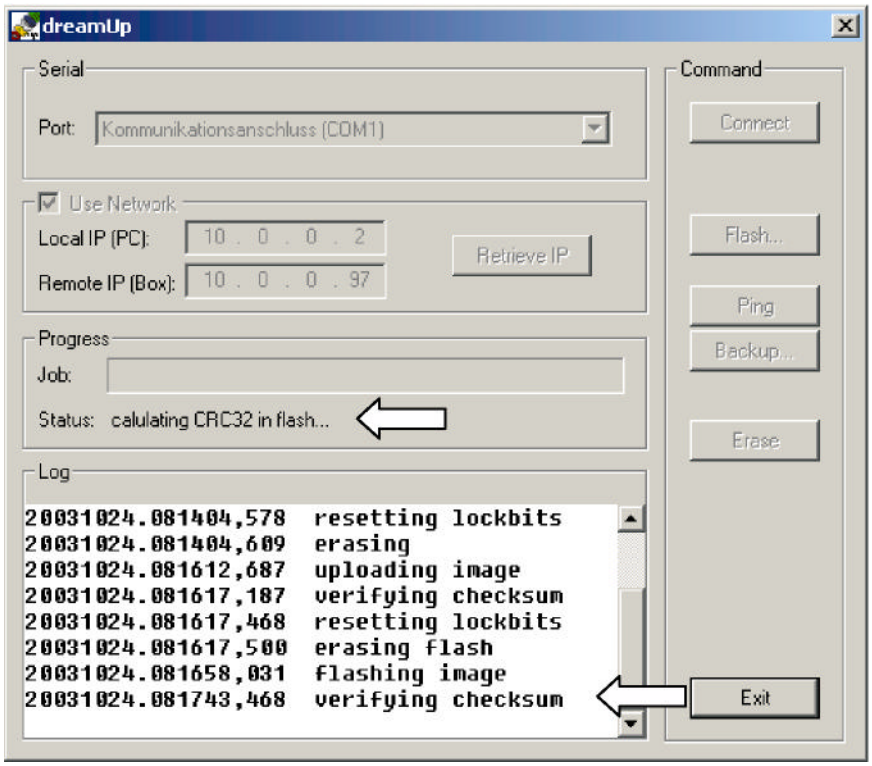
After clicking on the Open-Button, the image will be immediately uploaded to the Dreambox.
Watch the Progress bar, the Status and Log window.



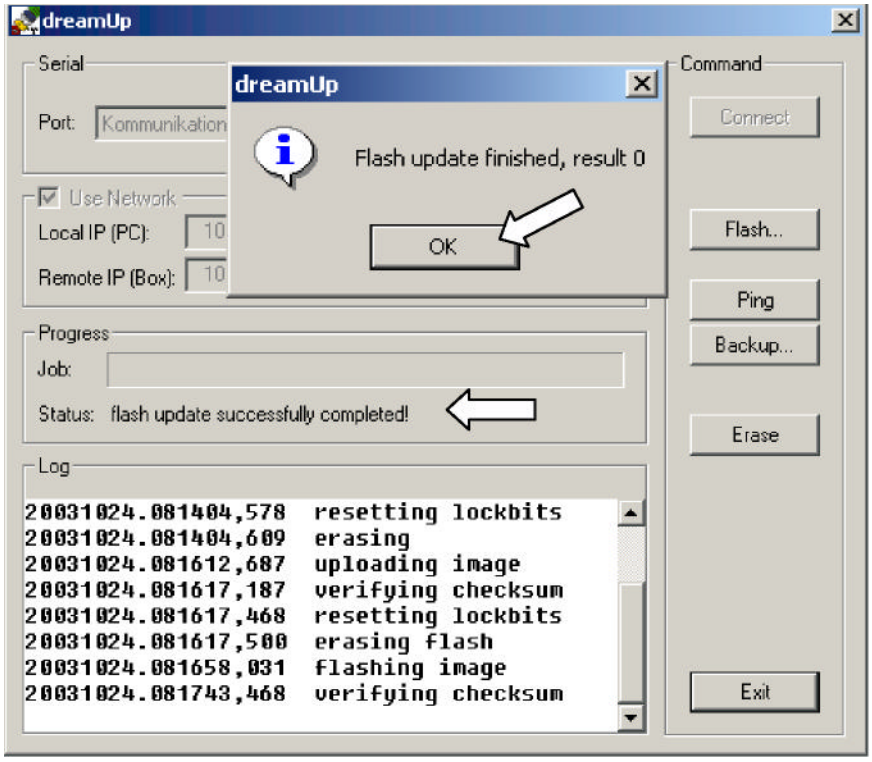
After the upload is completed the flash will be erased.
Watch the Status and Log window.



The image will be verified after flashing.



The flash procedure is completed, if you get a Flash update finished result 0.
Click on the OK-Button to quit.



43.6. Dreambox resetting to factory defaults (flash erase)

Your Dreambox is now flashed with a new image (Software).

Click on the Exit-Button to close DreamUp.

Disconnect the Mainspowercord from the Dreambox.

Wait at least 30 seconds.

Plug in the Coax cable first, then the Scartcable and all other cables.

Turn on the TV and set it to AV

Plug in NOW the Mainspowercord.

As soon as you see the Dream-Logo on the TV-Screen, press the Channel-Up-Button at the Front of the Dreambox. Hold it down until you see "flash erase" inside the LCD and then release it.

Your Dreambox will be set to factory defaults.

44. Dreambox Hardware reset

To make a hardware reset, press all three Buttons at the same Time.

45. Technical Data

250 MHz IBM PowerPC Processor (350 Mips)
Linux open source
1 x DVB Common-Interface Slot
2 x Smartcard-Reader
Integrated Compact Flash Interface Slot
MPEG2 Hardware decoding
100 MBit full duplex Ethernet Interface
USB Port
Big-size LCD-Display
64 MByte of User-RAM
32 MByte of Flash
integrated IDE UDMA66 Master/Slave Interface Support for internal HDD
unlimited channel lists for TV/Radio
channel-change time < 1 second
full automatic service scan
supports directly bouquet-lists (indirect unlimited)
supports EPG (electronic program guide)
supports multiple LNB-Switching control (supports DiSEqC)
fully adaptable OSD in many languages (skin-support)
S/PDIF Interface
2 x Scart-interfaces
UHF Modulator
Modem

DBS-Tuner:
Frequency Range 950 - 2150 MHz
Signal Level - 65 dBm - 25 dBm
Signal-to-Noise Level 12 dB max.
DBS-Tuner Input Connector F-Type female
Input Impedance 75 Ohm
AFC +/- 3 MHz
Demodulation Shaped QPSK
Viterbirate 1/2, 2/3, 3/4, 5/6, 7/8, automatic assimilation Roll-off Factor 35 %
Demultiplexing according ISO 13818-1

Common-Interface:
Common-Interface Power Consumption max. 0,3A/5V

Video decoder:
Video Compression MPEG-2 and MPEG-1 compatible
Video Standard PAL G/ 25 Hz
Video Formats 4:3 / 16:9
Footage 16:9, automatic assimilation for 16:9 TV-Device (over Scart)
Letterbox percolating for 4:3 TV-Device

Audio decoder:
Audio compression MPEG-1 & MPEG-2 Layer I and II
Audio Mode Dual (main/sub), Stereo
Frequency: 32 kHz, 44.1 kHz, 48 kHz, 16 kHz, 22.05 kHz, 24 kHz

Output analog:
Output Level L/R 0,5 Vss on 600 Ohm
THD > 60 dB (1 kHz)
Crosstalk < -65 dB

Output digital:
Output Level 0,5 Vss on 75 Ohm
Sampled Data Filtering 32 kHz, 44.1 kHz, 48 kHz
S/PDIF-Output optical (AC3)

Video parameter:
Input Level FBAS 1 Vss +/- 0.3 dB on 75 Ohm Teletext filter in conformity with ETS 300 472 Standard

TV-Scart:
Output: FBAS,RGB,S-VHS over OSD selectable

VCR-Scart:
Input: FBAS,RGB,S-VHS
Output: FBAS

Serial Interface RS 232:
Typ RS232 bidirectional
Bitrate 115,2 kBit/s max.
Plug Connector SUB-D-9
Function Update of Firmware and Preprogramming

Ethernet:
100 MBit compatible, bi-directional interface Function Update of Firmware and Preprogramming

USB:
USB 1.2 connector

Mini DIN:
I2C for steering of external devices (Option Rotor)
IR function

Pins:
1 5V
2 SDA (I2C-Kanal 2)
3 SCL
4 3,3V
7 GND
8 IR-Output
9 GND

UDMA66 IDE Interface:
Up to 300 GB capacity
Compact Flash - Reader

LNB power and polarisation:
LNB Current 500mA max. ; short-circuit-proof
LNB Voltage vertical < 14V without load, > 11,5V at 400mA LNB
Voltage horizontal < 20V without load, > 17,3V at 400mA LNB
shut-off at Standby-Mode

Count of active satellite position:
DiSEqC 1.0/2.0 SAT POSITION / SAT OPTION
DiSEqC - Rotor Control

Physical specification:
Ambient Temperature +15°C...+35°C
Humidity < 80%
Size (W x D x H): 374 mm x 230 mm x 75 mm
Weight: 2 kg without HDD

46. Contact & Support Information

Headquarter & Distribution:

Dream-Multimedia

Dealer Hotline:
(only Dealer)
Tel: 0180 - 3 68 43 98 - 000
Fax: 0180 - 3 68 43 98 - 001

Mo - Fr. 10:00 am - 05:00 pm

Technical Hotline:
Tel: 0180 - 3 68 43 99 - 777
Fax: 0180 - 3 68 43 99 - 778

Mo - Fr. 09:00 am - 12:00 pm and 01:00 pm - 04:00 pm

Dealers & Pricing:
E-Mail: info@dream-multimedia-tv.de

Technical Support:
E-Mail: support@dream-multimedia-tv.de

Website:
Weblink: http://www.dream-multimedia-tv.de

Support Forum:
Weblink: http://www.dream-multimedia-tv.de/board/index.php

Software Support (actual images):
Weblink DM7020: http://www.dm7020.de

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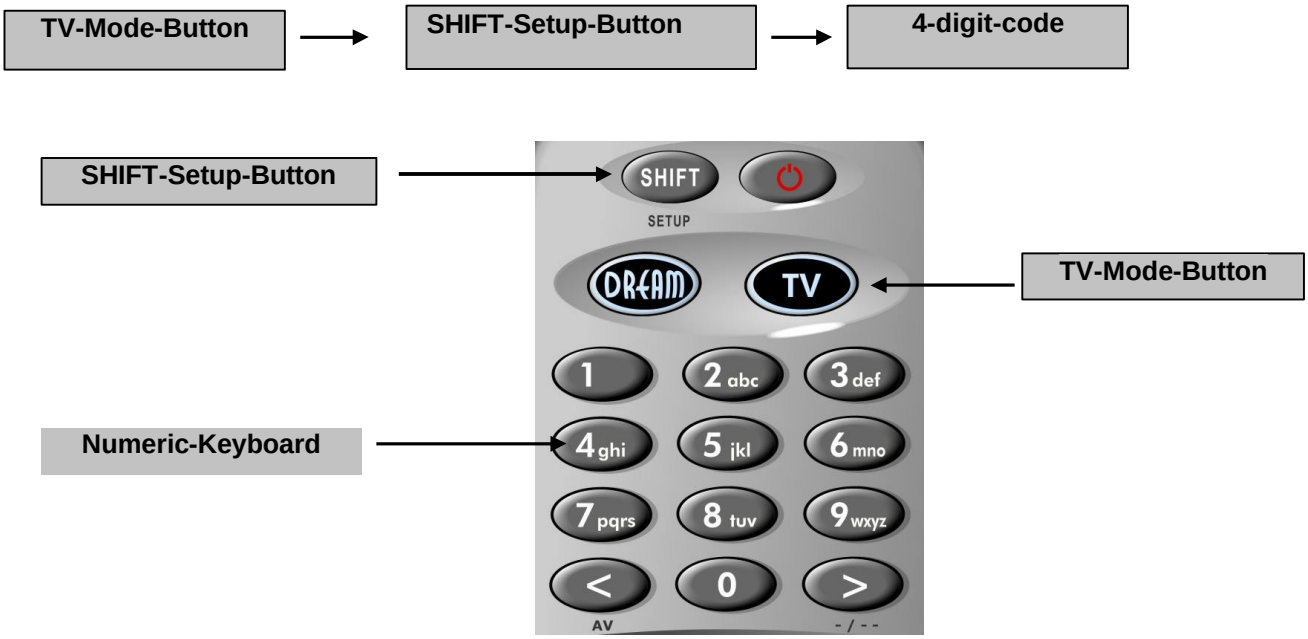
47. Setup-TV-Mode

Choose a code from the TV - Codelist for your TV in German Manual and follow this procedure to program the Remote Control for your TV.



47.1. Program sequence

- Press the TV-Mode-Button.

- Press the SHIFT-Setup-Button for at least 2 seconds, the TV-Mode-Button blinks two times.

- Enter each digit step by step. The TV-Mode-Button blinks after each digit.
  A valid code will be confirmed by blinking two times the TV-Mode-Button.

- The Remote Control exits the Program sequence automatically.

- If you don't enter a digit for at least 10 seconds, the Remote Control exits the Program sequence automatically.